

?ds

Set	Items	Description
S1	55748	XML OR X()M()L OR EXTENSIBLE() (MARKUP OR MARK()UP)
S2	2742	S1 AND SCHEMA?
S3	459	S2 AND (VALIDAT? OR VALIDITY? OR PARSE?)
S4	240	S1 (S)SCHEMA? (S) (VALIDAT? OR VALIDITY? OR PARSE?)
S5	51	S4 NOT PY>1999
S6	29	S4 NOT PD>19991013
S7	51	S5 OR S6
S8	40	RD (unique items)
S9	17	S8 AND S1(3N) (VALIDATOR? OR PARSER?)
S10	31	S8 AND MICROSOFT
S11	20	S10 NOT S9

?show files

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File 95: TEMA-Technology & Management 1989-2003/Feb W1  
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9/5,K/1 (Item 1 from file: 647)  
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01195225 CMP ACCESSION NUMBER: NWC19990628S0020

**Microsoft Won't Kill XML**

Brian Walsh  
NETWORK COMPUTING, 1999, n 1013, PG42  
PUBLICATION DATE: 990628  
JOURNAL CODE: NWC LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: Business To Business  
WORD COUNT: 658  
TEXT:

When my wife, Julie, asks me what I'm writing about in my column, I usually offer a much too detailed answer, greeted with a "that's nice " from her. When I began describing XML, I said that it makes it easier for organizations to agree on standards for the exchange of data. "You want agreement?" she responded. "Get those kids to agree to go to bed."  
COMPANY NAMES (DIALOG GENERATED): Boeing ; Microsoft

... t fret about IP's future is that its control is spread across many hands.

XML is similar in that a number of companies have competing XML parsers . XML is self-describing, and any schema that Microsoft creates should be verifiable by the XML community. Should be are the operative words. In the worst-case scenario, XML itself is balkanized by different vendor camps. A more likely outcome is that XML goes into widespread use intact, but the fight moves to different visions of how XML is used.

Microsoft uses XML because it solves problems. New releases of productivity applications adversely...

...objects to access them. Now a third, perhaps better engineered alternative has emerged-integrate an XML parser into your application and parse the document as you would any XML source. This option...

9/5,K/2 (Item 2 from file: 647)  
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01192928 CMP ACCESSION NUMBER: INW19990531S0001

**Are Too Many Players Trying To Shape XML?**

Ellis Booker and Jeffrey Schwartz  
INTERNETWEEK, 1999, n 767, PG1  
PUBLICATION DATE: 990531  
JOURNAL CODE: INW LANGUAGE: English  
RECORD TYPE: Fulltext  
SECTION HEADING: News & Analysis  
WORD COUNT: 914  
TEXT:

XML's enormous potential for integrating applications and letting partners swap business data has Microsoft, IBM and others staking their early positions.

COMPANY NAMES (DIALOG GENERATED): Aberdeen Group ; American Petroleum Institute ; Ariba Technologies Inc ; Baan Co ; BizTalk Server ; Boeing Co ; Commerce One Inc ; Common Business Library ; IBM ; MarketSite ; Microsoft ; Open Applications Group ; Organization for the Advancement of Structured Information Standards ; PeopleSoft Inc ; Qualcomm Inc ; SmithKline Beecham ; SAP AG ; World Wide Web Consortium

Each is racing to deliver **XML** servers and **parsers** or **XML** extensions to their existing enterprise software. Last week, for instance, Microsoft not only announced a summer beta release for its own **XML** server product (BizTalk Server) but also published a blueprint ( BizTalk Framework) for converting business objects and application logic into **XML** . It also created a Web site (BizTalk.org) that serves as a quasi-independent clearinghouse for **XML** **schema** , which describe different kinds of business data.

While experts agree that XML is worth all...

9/5,K/3 (Item 1 from file: 674)  
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080085

**Java business conference: Sun steps up Java's enterprise focus**

Byline: John Cox

Journal: Network World

Publication Date: December 08, 1999

Word Count: 573 Line Count: 52

Text:

... pay a penny to Sun. Finally, Sun announced two measures to bolster its support for **XML** technology, which is an industry standard for describing data in a Web page. **XML** is seen as an important way to let different businesses and applications share data over the Web. Sun released an initial version of the Java API for **XML** Parsing. This interface will let a Java program plug into any **XML** **parser** , so it can read, create and work with **XML** documents. Sun is shipping the API package with its own experimental **parser** , called Java Project X (JAXP). The final version of JAXP is due in early 2000. Sun has also formed an expert group of 11 other companies to create **XML** Data Binding software for the Java 2 specification. This project will define relationships between **XML** documents and Java objects, as well as create a special compiler. The compiler automatically will create Java classes from **XML** **schemas** or data descriptions. The project is part of Sun's Java Community Process for creating...

9/5,K/4 (Item 2 from file: 674)  
DIALOG(R)File 674:Computer News Fulltext  
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079435

**Oracle to unveil XML-based application server for ERP systems**

Byline: Ellen Messmer

Journal: Network World

Publication Date: November 11, 1999

Word Count: 397 Line Count: 36

Text:

SANTA CLARA - Oracle next week will take the wraps off an **XML** -based application server that will be able to move data between Oracle, SAP and Baan enterprise resource planning systems by transforming proprietary data into **XML** messages. The Oracle Integration Server uses Java Messaging Services, which describes how to create reliable...

... within the corporation or to a business partner across the Internet by converting it into **XML** . The product is expected to ship at the same time as Oracle 11i. On top...

... this business-to-business application, the company has included a component it calls the Oracle **XML** Gateway. The gateway converts between the different formats for purchase orders or other business documents by using so-called **XML** **Schemas** . The World Wide Web Consortium is about to

'complete its standard for **XML Schemas**, which are format-neutral ways to store data. There are also a number of nonstandard efforts among the same lines, Microsoft's BizTalk framework being the most prominent. **XML** is a growing suite of standards "that will make it easy to exchange critical business information," said Steve Muench, Oracle's lead **XML** evangelist on the business components for Java team during his keynote at the **XML One** conference. Muench said **XML** is a way to program electronic documents with **XML** tags so that the tagged content can be easily identified. That makes it easy for...

... Java. This tool kit will let users encapsulate the business logic you can define in **XML Schemas** into Java components. "You can set business rules with this," Muench said. Oracle's 8i database has been adapted to output data in **XML**. Oracle this week made an **XML parser** tool kit for creating **XML** documents available. Muench said Oracle is experimenting with how its entire database might be revamped to store data as **XML** and to use **XML** to navigate tables and views. In addition, the general trend to store images, audio, video...

... the growing number of companies interested in data warehousing and data mining - might mean that **XML** will have an even bigger role to play in future Oracle databases. See: [www.technet...](http://www.technet...)

9/5,K/5 (Item 3 from file: 674)  
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079408

**Apache Software Foundation launches XML open-source project**

Byline: Ellen Messmer

Journal: Network World

Publication Date: November 10, 1999

Word Count: 479 Line Count: 45

**Text:**

... the freely available Apache Web server is taking on a new project intended to make **XML** part of the open-source movement. The Apache Software Foundation is making **XML parsers** and document conversion tools from several vendors, including IBM and Sun, available for free at [xml.apache.org](http://xml.apache.org) so that customers can use them to build in-house applications or commercial products. The main purpose is to promote interoperability in **XML** data exchange as the World Wide Web Consortium (W3C) continues to work on new standards, such as **XML Schema**, which is part of the **XML** standards suite, IBM says. IBM is making two of its **XML parsers** available at the Apache site "to bring about the best possible innovation from the open...

... go back into these tools." The issue of interoperability in business-to-business use of **XML** is coming into the spotlight as the W3C is expected to complete work on the **XML Schema** specification for making **XML**-based business documents. Microsoft has taken a different approach with its own technology, called **XML Data Reduced Schema** (XDR). XDR has become part of the BizTalk **XML**-based Jumpstart Toolkit and the alpha version of the BizTalk Server. **XML** users say they are wary of a proprietary approach to **XML**, which lets programmers generate format-neutral documents using tools, including **XML parsers**, for conversion to HTML, EDI or database formats. "Microsoft has been pressuring us to do **XML** their way, but I'm reluctant to get locked into building applications that are nonstandard..."

... point," says Karen Koran, Computer Science Corp. (CSC) software programmer. CSC is involved in an **XML** pilot project with Microsoft at the U.S. Department of Education. The Education Department would like to use **XML** as the main data format to send and receive information to its back-end systems in future applications. The Apache Software Foundation's **XML** effort is intended to foster **XML** interoperability by making several

'vendors' tools and their source code freely available so that ideas for improving them can be heard. The available tools include: - IBM's XML4J and XML4C **parsers** - now renamed Xerces - for reading and **validating XML** documents in either Java or the C programming language, respectively. - Sun's Java Project X and its XHTML **Parser**, for generating **XML**, a reformulated HTML 4.0 in **XML** 1.0, and now a W3C draft specification. - The Lotus XSLT processor for interpreting the...

... DataChannel's X Pages tool for building Web applications that interpret disparate data sources as **XML**. - Bowstreet's FOP, an implementation of XSL for print use. - Developer Stefano Mazzocchi's Cocoon tool for publishing **XML** in Java. - Exoffice's OpenXML tool, also in Java, for creating **XML** applications that support the **XML** standards DOM and the SAX APIs. Exoffice also provided an XSL **parser**. For more information go to [www.xml.apache.org](http://www.xml.apache.org)

9/5,K/6 (Item 4 from file: 674)  
DIALOG(R) File 674:Computer News Fulltext  
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078526

**Informix is latest to lay its chips on XML**

Byline: Michael Lattig

Journal: Network World

Publication Date: October 08, 1999

Word Count: 449 Line Count: 43

**Text:**

... has laid out a plan that will see the company rely on standards, most notably **Extensible Markup Language (XML)**, to compete. With the introduction of its Internet Foundation 2000 database last month, the company made its first foray into **XML** support. Now the company is expanding on that message, defining its road map for the incorporation of **XML** across its entire product line and proclaiming its desire to simplify the development and integration of applications and data for e-business. Currently **XML** is supported in the Internet Foundation.2000 database through the Informix Web DataBlade module, which allows the database to generate dynamic **XML** data and documents via a SQL interface. That will allow users to publish **XML** data over the Internet, either to an **XML** Web browser or **XML** enabled-applications using the HTTP protocol, officials said. Internet Foundation.2000 will soon support hierarchical **XML** data storage, allowing the import, export, storage, and querying of **XML** structures in their native hierarchical format. An early developer's release of the capability, which is open to any Java **XML parser** and integrates **XML** with pre-existing database **schemas**, will be available online later this year through the Informix Developers Network at [www.informix.com/idn](http://www.informix.com/idn). Looking out further, Informix will push **XML** support across its entire line of products, including a server-based workflow engine and an **XML** metadata repository, both due in the first half of next year, officials said. The overarching goal of the **XML** support, according to Jeffery Munz, executive director of product marketing and management for Informix, is...

... the infrastructure for emerging business-to-business and business-to-consumer applications, which are largely **XML**-based. Informix is also planning to support other **XML**-related standards, such as XSL, **XML Schema**, **XML Query Language (XQL)**, **XML Linking**, and **XML Infoset**, as each is finalized by the World Wide Web Consortium, which Informix recently joined...

... Olofson, a research director at International Data Corp. in Framingham, Mass., Informix's embrace of **XML** should be welcome news to customers. "**XML** is a key trend for enterprise information management and access, so anybody who intends to provide database technology that's strategic from an enterprise perspective needs to provide **XML** support," Olofson said. "In effect they're coming in a little late, but they plan to make up for that

'by coming on strong." In addition to enhanced **XML** support, Munz said that Informix is on the verge of announcing integration partnerships with major ...

9/5,K/7 (Item 5 from file: 674)  
DIALOG(R)File 674:Computer News Fulltext  
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077628

**Microsoft preps development environment for Windows 2000**

Byline: Dana Gardner  
Journal: Network World  
Publication Date: September 07, 1999  
Word Count: 566 Line Count: 54

**Text:**

... month, the tool set designed to fully leverage the operating system's COM+ services and **Extensible Markup Language (XML)**-oriented interoperability -- Visual Studio 7.0 -- will not be available until as late as next spring. Microsoft's interoperability strategy depends on widespread adoption of **XML** by software vendors and developers as well as the distribution of **XML parsers** via upgrades to many products throughout the enterprise, analysts said. Microsoft's reliance on **XML**-based "datagrams" to facilitate communication between disparate servers -- a key to building Internet commerce applications...

... built with Distributed Internet Applications (DNA) and Visual Studio is many months away due to **XML**'s relative immaturity. Although adherence to Microsoft components and platforms is not required for cross-platform interoperability, the use of **XML** and the recognized **XML schemas** are necessary. Even if **XML** is a World Wide Web Consortium (W3C)-run standard, the availability and adherence to certain **schemas** can still take on a proprietary tone. "This is the same old Microsoft. I wouldn't necessary call something open or interoperable just because you use the **XML** word," said Tom Dwyer, an analyst at the Aberdeen Group, in Boston. "With any of these approaches, you'll have a set of companies that agree on a set of **XML schemas**." "When using **XML** for cross-platform interoperability, there is a potential loss of integrity. And there's a...

... Cambridge, Mass. The updates to Visual Studio, along with visual toolkits for using the BizTalk **XML** Server and the next-generation Windows platform will provide wider interoperability with non-Microsoft architecture...

... DNA, and taking it to the next level. The underlying foundation is on COM+ and **XML** as the plumbing, as well as **XML** as a way to exchange back-end data," Leake said. "These all fit together for...

... immediately," Leake added. Interoperability between DNA and non-DNA architectures, however, will come principally from **XML** and associated **schemas** and the upcoming Babylon server connectors, not from any Microsoft embrace of CORBA or EJB...

...platform and tools may have as much to do with the rate of adoption of **XML** among independent software vendors and enterprises as with the arrival of Microsoft's products. "For this to work, you need Windows 2000, COM+, and **XML**," Dwyer said. "And a lot of companies say they don't have that." Microsoft Corp...

9/5,K/8 (Item 1 from file: 813)  
DIALOG(R)File 813:PR Newswire  
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1225624

LATU059

**DataChannel Delivers XML Client Server Development System in Conjunction**

## With The W3C-Recommended XML 1.0

DATE: February 10, 1998

10:54 EST

WORD COUNT: 675

BELLEVUE, Wash.Feb. 10 /PRNewswire/ -- DataChannel, the leader in XML application development for the corporate enterprise, today announced a new member of the DataChannel product family with the immediate availability of the DataChannel **XML Parser** (DXP) 1.0 beta. This announcement is in conjunction with the W3C recommendation of the XML 1.0 specifications and delivers on the promise of XML. The XML 1.0 specification delivers to developers the next-generation interchange of information on the Web.

"DataChannel is excited to support the World Wide Web Consortium's recommendation of XML 1.0, and its effort to further advance Web development and Web-based computing," said David Pool, CEO of DataChannel. "DataChannel is committing to the XML 1.0 specification by providing the development community with the DXP beta allowing developers to utilize XML data in their applications."

The DataChannel **XML Parser** 1.0

The DataChannel **XML Parser** is a Java-based **XML parser** designed for server side-based XML parsing and integration. It is a redesigned version of NXP (Norbert Mikula's **XML Parser**), one of the first **XML parsers**. DXP allows application developers to make their applications XML-aware by providing them with the ability to import XML data into their own data structure. Data can come from a database, the Web, a file, or from a local application -- whatever a URL can address.

XML promises to be the standard for information exchange on the Internet. The DXP allows developers to make use of the XML data. Now developers have a tool that supports catalogs and provides interfaces such as simple API for XML such as (SAX) and, soon, the document object model (DOM).

"XML promises to bring structure to Web-based data," said Thomas Powell, President, Powell Internet Consulting, LLC. "DataChannel is allowing developers to utilize XML today through their product offerings such as the **XML Parser**." The DataChannel **XML Parser** is part of the DataChannel XML Developer Toolkit (DXDE), which will be available Q1Y98.

DataChannel XML Developer Toolkit

Features of the DataChannel **XML Developer Toolkit** (DXDE) will include:

DataChannel **XML Parser** (DXP) -- based on Mikula's **validating NXP parser**, one of the most widely adopted in the industry. Enhancements over NXP include performance improvements as well as expansion of the API support.

Pax Syntactica -- a lightweight, well-formed **XML parser** authored by John Tighe.

DataChannel **XML Viewer** -- an applet that uses the Pax Syntactica **parser** and includes a tree-walker and viewer for **XML** documents.

**XML Server** -- a platform-independent server that supports a database **schema** for managing and distributing metadata.

CDF Viewer demo -- a demo of the upcoming DataChannel CDF Viewer client, an example of **XML** in action. The CDF Viewer client will be fully supported in ChannelManager 2.0 available Q1Y98.

The DXDE is in beta form and is available at no cost. It can be viewed at <http://www.datachannel.com/products/xml/>.

### About DataChannel

Based in Bellevue, Washington, DataChannel is a pioneer in enterprise content-routing solutions, focusing on instant distribution of organized content. Their first product, ChannelManager, combines the power of an XML-driven database engine with real-time TIB notification (Nasdaq: RTRSY) working with Netscape's Communicator (Nasdaq: NSCP) or Microsoft's Active Channel content (Nasdaq: MSFT). ChannelManager is the first and only

' corporate Webcast solution that allows IS managers to manage Web channels; external newsfeeds such as Data Broadcasting Corp. (Nasdaq: DBCC), Desktop Data (Nasdaq: DTOP), and Individual (Nasdaq: INDV); search engines such as Yahoo!, Excite (Nasdaq: XCIT), InfoSeek (Nasdaq: SEEK), and Lycos (Nasdaq: LCOS); relational databases from companies such as Informix Software (Nasdaq: IFMX), Sybase (Nasdaq: SYBS), and Oracle (Nasdaq: ORCL); PC applications; and legacy corporate data from companies such as Wall Data (Nasdaq: WALL) and IBM (NYSE: IBM) -- all within a customizable employee desktop environment.

DataChannel's tools enable corporations to get "The Right Information to the Right Person at the Right Time." Additional information about DataChannel and its products can be found at [www.datachannel.com](http://www.datachannel.com).

SOURCE DataChannel

CONTACT: Valerie Chan of DataChannel, 425-462-1999 or [valerie.datachannel.com](mailto:valerie.datachannel.com)

Company News On-Call: <http://www.prnewswire.com> or fax, 800-758-5804, ext. 115568

Web site: <http://www.datachannel.com>

COMPANY NAME: DATACHANNEL  
TICKER SYMBOL: IBM (NYS); RTRSY (NDQ); NSCP (NDQ); MSFT (NDQ); DBCC (NDQ); DTOP (NDQ); INDV (NDQ); XCIT (NDQ); SEEK (NDQ); LCOS (NDQ); IFMX (NDQ); SYBS (NDQ); ORCL (NDQ); WALL (NDQ)  
PRODUCT: COMPUTER, ELECTRONICS (CPR)  
DESCRIPTORS: NEW PRODUCTS & SERVICES (PDT)  
STATE: WASHINGTON (WA)  
SECTION HEADING: BUSINESS; TECHNOLOGY

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9/5,K/9 (Item 1 from file: 20)

DIALOG(R) File 20:Dialog Global Reporter

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08624084 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**SUN MICROSYSTEMS: Sun Microsystems leads industry effort to simplify XML development**

M2 PRESSWIRE

December 08, 1999

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1635

DEC 8, 1999, M2 Communications - NEW YORK, NY -- Java BusinessSM Conference -- Sun Microsystems, Inc. today made two announcements that underscore its support for the eXtensible Markup Language (XML) with the Java 2 platform: the availability of the Java Application Programming Interface (API) for XML Parsing Optional Package ("JAXP"), and the formation of an expert group for the XML Data Binding project. The expert group for this project, which is going through the Java Community Process, consists of Allaire, Ariba, BEA/Web Logic, Bluestone Software, AOL/Netscape, Extensibility, Fujitsu, IBM, Object Design, Oracle, webMethods and Sun Microsystems. With these announcements, Sun is leading the effort to deliver XML technologies for the Java 2 platform that will ease the creation and maintenance of Java technology-based applications enabled by XML and improve portability of data exchange between disparate business systems.

In 1996, Sun spearheaded an initiative through the W3C to develop the eXtensible Markup Language (XML), a standards-based universal syntax for describing and structuring data in a way that is independent from the application logic. Sun's announcement of the Java technologies for XML provides universal application logic that complements XML. The Java 2 platform and XML are complementary technologies that each have common features critical for industrial-strength Web-based applications, including platform-independence, industry standards, extensible, reusable, and global language support. Together, the Java 2 platform and XML will allow enterprises to simplify and lower the cost of information sharing and exchange in Web applications.

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COMPANY NAMES: Oracle Corp; Netscape Communications Corp; International Business Machines Corp; Fujitsu Ltd; America Online Inc; Allaire Corp; Sun Microsystems Inc

DESCRIPTORS: Company News; Research & Development; Strategy

COUNTRY NAMES/CODES: United States of America (US)

REGIONS: Americas; North America; Pacific Rim

PROVINCE/STATE: New York

SIC CODES/DESCRIPTIONS: 3571 (Electronic Computers); 7372 (Prepackaged Software); 7375 (Information Retrieval Services)

NAICS CODES/DESCRIPTIONS: 334111 (Electronic Computer Mfg); 51121 (Software Publishers); 514191 (On-Line Information Services)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... JAXP provides a standard way for a Java platform-based application to plug in any **XML** -conformant **parser** . While the reference implementation uses Sun's experimental high performing Java Project X as its default **XML parser** , the software's pluggable architecture allows any **XML** - conformant **parser** to be used, such as the **xml.apache.org XML parser** , code named Xerces. (For information on this community project to which Sun donated technology, please...

' ... announced the expert group of industry leaders within the JCP that is working to create **XML** Data Binding software for the Java 2 platform. This project, code-named Project Adelard, will enable developers to deliver and maintain high-performance **XML** -enabled applications with a minimum of development effort. Project Adelard provides a two-way mapping between **XML** documents and Java technology-based objects along with a **schema** compiler tool. The compiler will automatically generate Java classes from **XML** **schemas** without requiring developers to write any complex parsing code. In addition, the compiler will contain automatic error and **validity** of checking of **XML** messages, helping to ensure that only valid, error-free messages are accepted and processed by...

... developers be able to more easily develop and process Java technology-based applications that leverage **XML**, but enterprises will also lower costs through more productive development.

As with JAXP, Project Adelard...

9/5,K/10 (Item 2 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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08595384 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Sun Microsystems Leads Industry Effort to Simplify XML Development**  
PR NEWSWIRE  
December 07, 1999  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 1116

Java(TM) 2 Platform Support for the eXtensible Markup Language (XML)  
Dramatically Eases the Creation of Ecommerce Applications

NEW YORK, - Java Business (SM) Conference - Dec. 7 /PRNewswire/ -- Sun Microsystems, Inc. (Nasdaq: SUNW) today made two announcements that underscore its support for the eXtensible Markup Language (XML) with the Java(TM) 2 platform: the availability of the Java Application Programming Interface (API) for XML Parsing Optional Package ("JAXP"), and the formation of an expert group for the XML Data Binding project. The expert group for this project, which is going through the Java Community Process, consists of Allaire, Ariba, BEA/Web Logic, Bluestone Software, AOL/Netscape, Extensibility, Fujitsu, IBM, Object Design, Oracle, webMethods and Sun Microsystems. With these announcements, Sun is leading the effort to deliver XML technologies for the Java 2 platform that will ease the creation and maintenance of Java technology-based applications enabled by XML and improve portability of data exchange between disparate business systems.

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COMPANY NAMES: Oracle Corp; Netscape Communications Corp; International Business Machines Corp; Fujitsu Ltd; America Online Inc; Allaire Corp; Sun Microsystems Inc

COUNTRY NAMES/CODES: United States of America (US)

REGIONS: Americas; North America; Pacific Rim

SIC CODES/DESCRIPTIONS: 3571 (Electronic Computers); 5961 (Catalog & Mail Order Houses); 7372 (Prepackaged Software)

NAICS CODES/DESCRIPTIONS: 334111 (Electronic Computer Mfg); 45411 (Electronic Shopping & Mail-Order Houses); 51121 (Software Publishers)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

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... announced the expert group of industry leaders within the JCP that is working to create **XML** Data Binding software for the Java 2 platform. This project, code-named Project Adelard, will enable developers to deliver and maintain high-performance **XML** -enabled applications with a minimum of development effort. Project Adelard provides a two-way mapping between **XML** documents and Java-based objects along with a **schema** compiler tool. The compiler will automatically generate Java classes from **XML** **schemas** without requiring developers to write any complex parsing code. In addition, the compiler will contain automatic error and **validity** of checking of **XML** messages, helping to ensure that only valid, error-free messages are accepted and processed by...

... developers be able to more easily develop and process Java technology-based applications that leverage **XML**, but enterprises will also lower costs through more productive development.

As with JAXP, Project Adelard...

9/5,K/11 (Item 3 from file: 20)  
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08585582 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Architag International Corp. Announces xRay, a New XML Editor**  
BUSINESS WIRE  
December 06, 1999  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 480

ENGLEWOOD, Colo.--(BUSINESS WIRE)--Dec. 6, 1999-- Architag International Corporation today announced the alpha release of their first software product, xRay, for Microsoft Windows operating systems.

The product is a real-time, validating XML editor designed to provide fast creating, viewing and editing of XML documents.

Copyright 1999 Business Wire. Source: World Reporter (Trade Mark).

COMPANY NAMES: Microsoft Corp  
DESCRIPTORS: New Products & Services; Marketing; Company News  
SIC CODES/DESCRIPTIONS: 7372 (Prepackaged Software)  
NAICS CODES/DESCRIPTIONS: 51121 (Software Publishers)

(USE FORMAT 7 OR 9 FOR FULLTEXT)  
... tool that allows users and developers to look inside their XML documents the way the **XML parser** does." The product's speed means that it can also be used by professional keyboarders...

...windows can be displayed, each containing its own XML document.

xRay works with well-formed **XML** documents, but also **validates** according to different types of **schemas**. "One of the breakthroughs in xRay is the ability to create and modify a document type definition (DTD) **schema**, but also create and **validate** against **XML** Data, a **schema** submission to the W3C," said Travis. "xRay is also the first **XML** editor that verifies rich datatypes, like numbers and dates, against the **XML** Data **schema**."

XML is a specification owned by the World Wide Web Consortium. XML can be used...

9/5,K/12 (Item 4 from file: 20)  
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08045777 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Commerce One Announces the Industry's First XML Development Toolkit for Building E-Commerce Applications**

BUSINESS WIRE

November 02, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 818

WALNUT CREEK, Calif.--(BUSINESS WIRE)--Nov. 2, 1999--  
XDK 1.0 Promotes Industry-wide Development of

Copyright 1999 Business Wire. Source: World Reporter (Trade Mark).

COMPANY NAMES: Commerce One Inc

COUNTRY NAMES/CODES: United States of America (US)

REGIONS: Americas; North America; Pacific Rim

PROVINCE/STATE: California

SIC CODES/DESCRIPTIONS: 7375 (Information Retrieval Services); 5961  
(Catalog & Mail Order Houses)

NAICS CODES/DESCRIPTIONS: 514191 (On-Line Information Services); 45411  
(Electronic Shopping & Mail-Order Houses)  
(USE FORMAT 7 OR 9 FOR FULLTEXT)

... the leader in global business-to-business e-commerce solutions, is pioneering the development of **XML** -based portal applications that link buyers and suppliers in real-time trading communities. Just as HTML provides ubiquitous communications for Web users, **XML schemas** provide the required structure and definition to enable buyers and suppliers to seamlessly conduct e-commerce on a global basis. Using information-rich, robust **XML schema** -based applications, XDK 1.0 will allow developers to provide application-to-application interoperability, which maximizes the return on investment for enterprises adopting **XML** -based e-commerce. By introducing object-oriented design for **XML**, Commerce One XDK 1.0 significantly reduces application development time, and provides a powerful **XML schema** and DTD **parser** to **validate XML** documents; an industry standard SAX API set (Simple API for **XML**); and a rapid application development environment with strong data typing capabilities.

Consistent with Commerce One...

9/5,K/13 (Item 5 from file: 20)

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07640435 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**INFORMIX: Informix XML-enables Internet Foundation.2000**

M2 PRESSWIRE

October 07, 1999

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 769

OCT 7, 1999, M2 Communications - JACOB JAVITS CENTER, NEW YORK, NY -- Fall Internet World -- October 6, 1999 -- Informix Corporation (NASDAQ: IFMX), the technology leader in enterprise database-powered solutions today announced support in Informix Internet Foundation.2000 for eXtensible Markup Language (XML), the Worldwide Web Consortium (W3C) standard for universal data exchange. With XML, Internet Foundation.2000 customers will be able to integrate existing data with their new E-commerce applications and efficiently exchange data with their customers, partners, and suppliers. Informix also announced its strategy to support XML across all of its products to deliver the easiest and fastest way to build and integrate applications and data for the new i.Economy.

Businesses are now moving their focus from electronic storefronts to streamlining their supply chain processes through business-to-business integration. With this migration, infrastructure requirements become more and more complex. XML is a metadata-rich way of representing data that is understandable to both humans and machines. It facilitates the increasing need for the tighter integration of intracompany applications and the evolving requirements for seamless inter-company communications.

Copyright 1999 M2 Communications Ltd.. Source: World Reporter (Trade Mark).

COMPANY NAMES: Informix Corp  
DESCRIPTORS: New Products & Services; Marketing; Company News  
COUNTRY NAMES/CODES: United States of America (US)  
REGIONS: Americas; North America; Pacific Rim  
SIC CODES/DESCRIPTIONS: 7375 (Information Retrieval Services); 7372  
(Prepackaged Software)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... an XML Web browser or an XML enabled-application that utilizes the HTTP protocol.

Hierarchical XML Data Storage - Allows Internet Foundation.2000 users the ability to import, export, store and query/index XML structures in their native hierarchical format. It provides a unique performance advantage over other approaches to storing XML documents in flat relational tables, where the use of a document's structures when processing queries is lost. Hierarchical XML data storage is open to any Java XML parser and integrates XML with pre-existing database schema. An early developer's release will be made available later this year through the Informix...

9/5,K/14 (Item 6 from file: 20)  
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07219080 (USE FORMAT 7 OR 9 FOR FULLTEXT)

MICROSOFT: Windows DNA 2000 provides pervasive XML support for next-generation web development

M2 PRESSWIRE

September 14, 1999

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1046

SEP 14, 1999, M2 Communications - REDMOND, Wash. -- Microsoft Corp. today expanded its industry-leading commitment to eXtensible Markup Language (XML) with a series of announcements for far-reaching XML support in Windows Distributed interNet Architecture (Windows DNA) 2000, the next generation of the Microsoft platform for building distributed Web applications. XML, an industry-standard technology developed by the Worldwide Web Consortium (W3C), enables heterogeneous interoperability of data, components, business processes and applications over the Internet.

The Microsoft Windows 2000 operating system, the cornerstone of Windows DNA 2000, is the first operating system with integrated, end-to-end XML support. Key products of the Windows DNA 2000 solution will offer new features and functionality based on XML, including Microsoft SQL Server, the "Babylon" Integration Server, Microsoft Commerce Server and Microsoft BizTalk Server. The key enabler for Microsoft's vision of integrated, programmable Web services is XML. Through the exchange of XML messages, services can easily describe their capabilities and allow any other service, application or device on the Internet to easily invoke those capabilities. To help realize that vision, Microsoft today is submitting to the Internet Engineering Task Force (IETF) an Internet draft specification for the Simple Object Access Protocol (SOAP), an XML-based mechanism that bridges different object models over the Internet and provides an open mechanism for Web services to communicate with one another.

Copyright 1999 M2 Communications Ltd.. Source: World Reporter (Trade Mark).

COMPANY NAMES: Microsoft Corp  
DESCRIPTORS: Joint Ventures; Strategy; Company News; New Products & Services; Marketing  
COUNTRY NAMES/CODES: United States of America (US)

REGIONS: Americas; North America; Pacific Rim  
SIC CODES/DESCRIPTIONS: 7375 (Information Retrieval Services); 7372  
(Prepackaged Software)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... support XML. For developers, Microsoft provides a standalone, redistributable version of MSXML, a general purpose XML parser that lets any application easily manipulate XML information. In addition, Microsoft recently created the MSDN...

... XML support can be found throughout Windows 2000, which includes a built-in, high-performance parser, support for XML streaming and persistence, XML record-set translation, and support for building XML data islands in...

... transaction environments. The "Babylon" integration server is scheduled to be available by mid-2000.

MSDN XML Developer Center. Microsoft has launched a new Web site to centrally provide developers with all the tools and resources they need to be successful leveraging XML in their Web and enterprise applications. The new MSDN XML Developer Center, at <http://msdn.microsoft.com/xml/>, will bring together the rich set of tools and resources Microsoft provides to make it easier for developers to work with XML, including the MSXML parser, the fastest XML parser available on the market today. This will allow developers to create flexible and open solutions...

...trading partners and customers. With today's announcement of the opening of the BizTalk.Org schema library on <http://www.biztalk.org>, customers and partners can get started today using the...

9/5,K/15 (Item 7 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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04984164 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**DataChannel Releases the Most Advanced XML Parser -- XJParser -- and Introduces xDev its XML Developers Program**

BUSINESS WIRE

April 16, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1137

BELLEVUE, Wash.--(BUSINESS WIRE)--April 16, 1999--DataChannel announced today the immediate availability of the latest XJParser(tm), a cornerstone of its XML Toolkit for XMLFramework(tm) and the XML Developers Program, xDev(tm).

Formerly referred to as the DataChannel XJ2 Parser, co-developed with Microsoft, (Nasdaq:MSFT), the new release adds substantial functionality with significant improvements in performance. DataChannel's XML Developers Program, xDev(tm) is designed to showcase developers work and real-world implementations and provide the XML tools and technology needed to realize the true power of XML. The XJParser can be downloaded at the new xDev site at <http://www.datachannel.com/xdev>.

Copyright 1999 Business Wire. Source: World Reporter (Trade Mark).

(USE FORMAT 7 OR 9 FOR FULLTEXT)

**DataChannel Releases the Most Advanced XML Parser -- XJParser -- and Introduces xDev its XML Developers Program**

XJParser becomes the industry's most complete, reliable, and innovative XML parser for delivering powerful, server-based enterprise applications utilizing open web-standards. XJParser is the cornerstone...

...capacity to integrate data from any source."

XJ Parser Feature Overview

Extended functionality of XJ Parser includes:

-- **XML** 1.0 Standards Compliance with a complete set of W3C interfaces to ensure interoperability with applications and web-based technologies. -- Simple API for **XML** (SAX) 1.0 to optimize performance parsing large documents utilizing an event-based API. Additional...

... party SAX drivers is also included. -- Integrated eXtensible Stylesheet Language (XSL) processor providing seamless, integrated **XML** parsing and transformation in one package. -- Supports and extends full **XML** functionality in Microsoft Internet Explorer 5.0. -- **Validating** support for DTD's and **XML schema** to verify true and error-free **XML** data. -- Exception and Error Handling to handle Java exceptions as well as trapping errors for...

9/5,K/16 (Item 8 from file: 20)  
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03685712 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Veo Systems Announces Support For Sun Microsystems' New Java Development Kit With Java-Based Parser; Veo Systems Leads Integration of XML and Java**

BUSINESS WIRE

December 08, 1998

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 487

NEW YORK--(BUSINESS WIRE)--Dec. 8, 1998--Veo Systems, Inc., a pioneer in the development of open commerce networks, today announced a Java-based **XML parser** that will support Sun Microsystems, Inc.'s next release of its Java(TM) Development Kit (JDK(TM) version 1.2).

Due to ship in Q1 of 1999, Veo Systems' **XML parser** will bridge the gap between **XML** and Java by being the first **parser** to support the **Schema** for Object Oriented **XML** (SOX) submission to the W3C **XML - Schema** working group. The Veo **parser** will combine unprecedented speed with **XML** DTD and SOX **validation**.

Copyright 1998 Business Wire. Source: World Reporter (Trade Mark).  
DESCRIPTORS: New Products & Services; Marketing; Company News  
COUNTRY NAMES/CODES: United States of America (US)  
REGIONS: Americas; North America; Pacific Rim  
PROVINCE/STATE: California  
SIC CODES/DESCRIPTIONS: 3571 (Electronic Computers); 3570 (Computer & Office Equipment)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...Inc., a pioneer in the development of open commerce networks, today announced a Java-based **XML parser** that will support Sun Microsystems, Inc.'s next release of its Java(TM) Development Kit (JDK(TM) version 1.2).

Due to ship in Q1 of 1999, Veo Systems' **XML parser** will bridge the gap between **XML** and Java by being the first **parser** to support the **Schema** for Object Oriented **XML** (SOX) submission to the W3C **XML - Schema** working group. The Veo **parser** will combine unprecedented speed with **XML** DTD and SOX **validation**.

SOX extends **XML** for e-commerce and distributed computing by adding strong typing, inheritance, global name spaces, and legal attribute values. These extensions enable **validity** checking and facilitate mapping a document to other documents as well as to the rich data **schemas** used in databases and object oriented software applications.

"Veo is leading the way to couple...

...innovative e-commerce and business integration solutions."

Veo Systems is currently accepting applicants for the **XML parser** early access program. Anyone interested in participating should visit Veo's website at [www.veosystems.com/xml / parser / parser .html](http://www.veosystems.com/xml/parser/parser.html)

About Veo Systems, Inc.

Veo Systems is the leading supplier of products and services...

9/5,K/17 (Item 1 from file: 610)  
DIALOG(R)File 610:Business Wire  
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00115171 19991006279B1146 (USE FORMAT 7 FOR FULLTEXT)  
**Informix XML-Enables Internet Foundation.2000; Defines Roadmap for XML Strategy**  
Business Wire  
Wednesday, October 6, 1999 08:53 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
DOCUMENT TYPE: NEWSWIRE  
WORD COUNT: 961

LEAD PARAGRAPH:

NEW YORK, Oct 6, 1999 (BUSINESS WIRE) - Informix(R) Corporation (NASDAQ: IFMX), the technology leader in enterprise database-powered solutions today announced support in Informix(R) Internet Foundation.2000(TM) for eXtensible Markup Language (XML), the Worldwide Web Consortium (W3C) standard for universal data exchange.

With XML, Internet Foundation.2000 customers will be able to integrate existing data with their new E-commerce applications and efficiently exchange data with their customers, partners, and suppliers. Informix also announced its strategy to support XML across all of its products to deliver the easiest and fastest way to build and integrate applications and data for the new i.Economy.

COMPANY NAMES: informix; INTERNATIONAL DATA CORP; INTERNATIONAL DATA GROUP INC; OASIS; SHANDWICK TECHNOLOGIES LTD; SHANDWICK PLC  
INDUSTRY NAMES: COMPUTER HARDWARE; COMPUTER SOFTWARE; DATABASES; DATABASE SOFTWARE; INTERNET; COMPUTERS; INFORMATION MANAGEMENT; COMMUNICATIONS TECHNOLOGIES  
EVENT NAMES: FOREIGN TRADE AND PAYMENTS; JOINT VENTURES; TECHNOLOGY DEVELOPMENT

...an XML Web browser or an XML enabled-application that utilizes the HTTP protocol.

-- Hierarchical **XML** Data Storage - Allows Internet Foundation.2000 users the ability to import, export, store and query/index **XML** structures in their native hierarchical format. It provides a unique performance advantage over other approaches to storing **XML** documents in flat relational tables, where the use of a document's structures when processing queries is lost. Hierarchical **XML** data storage is open to any Java **XML parser** and integrates **XML** with pre-existing database **schema**. An early developer's release will be made available later this year through the Informix...

?



11/5,K/1 (Item 1 from file: 674)  
DIALOG(R)File 674:Computer News Fulltext  
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080370

**The fight for e-trillions**

**Trouble is brewing over business-to-business e-comm standards.**

Byline: JULIE BORT

Journal: Network World Page Number: 89

Publication Date: December 27, 1999

Word Count: 1620 Line Count: 152

**Text:**

... on e-commerce standards, much of it overlapping or conflicting, and chiefly in two areas: **XML** and codifying business practices. Ask any vendor about its involvement in business-to-business e-commerce standards and you 'll get an ear full of **XML**. Yet unlike other standards, only **XML**'s syntax has been standardized. While it 's great that Web developers can now tag...

... tags and documents. The work manifests itself in two forms: Document Type Definitions (DTD) and **schemas**. DTDs, part of the World Wide Web Consortium 's **XML** 1.0, basically declare what kind of document is being exchanged. **Schemas**, developed after Version 1.0, are more comprehensive. They include document structure, more rules and...

... for Commerce One, a business-to-business e-commerce vendor in Walnut Creek, Calif. "A **schema** is much less processing-intensive. It needs less **validation** than a DTD because there 's less rule-checking and handling. So it requires less...

...that require special scheduling," counters David Rome, vice president of marketing for Ariba. Too many **XML** recipes. Perhaps a bigger issue is the sheer number of cooks in the **XML** kitchen. Two categories of groups are busily defining standards: vertical industry consortia and e-business platform vendors. As for the former, some 35 industry-specific **XML** DTD/**schema** frameworks are being created in at least a dozen industries, according to OASIS, a vendor-independent repository of **XML** initiatives. The frameworks include the financial securities industry 's Financial Products Markup Language (FpML); the...

...a lot of repetition. The financial industry is a prime example. There 's FpML, plus **XML** work by the Banking Industry Technology Secretariat; the Interactive Financial Exchange; the Financial Services Technology Consortium; the Bank Internet Payment System; and Checkfree, Intuit and **Microsoft** with their Open Financial Exchange. No single reference implementation exists for **XML**. Each group is creating its DTDs and **schemas** from scratch leaving a whole lot of variations to support. This is particularly harsh for...

... retailers, which work with many vertical markets. They 're forced to support multiple so-called **XML** standards. "We preach to customers to use as many emerging **XML** standards as practical," asserts Shannon Denton, senior vice president for Xcelerate, a Web site developer...

... vendors specializing in business-to-business trading. They try to attract customers with their own **XML** frameworks. Such frameworks concentrate on common business documents such as purchase orders and return authorizations...

... and SAP 's mySAP. Place this mixture into a scorching hot fire otherwise known as **Microsoft** 's BizTalk, an **XML** **schema** repository. Groups register their **schemas** with BizTalk, and it translates one to another. This type of translation is a page right out of electronic data interchange. True to form, **Microsoft** has gotten ahead of the standards process, using an extended **schema** and its own exchange methods. Yet

' because of **Microsoft** 's clout, everyone who 's anyone is working with BizTalk. This, in turn, has caused fear among competitors that **Microsoft** is covertly trying to control **XML** . There is some reason to worry BizTalk will be supported in **Microsoft** products such as Site Server Commerce Edition and Office 2000, and is available as the **Microsoft** BizTalk Server, now in alpha."A lot of people will see power to drive the standard in **Microsoft** . But by definition, a standard is not controlled by a single company," says Jim Hoyt...

... offers a competitor to BizTalk, Gentran:Server. With all this activity, it would seem that **XML** is the only e-business standard. Not true. About 18 months ago, Open Buying on...

...such as Ariba and SAP. However, the specification 's complexity, coupled with the rise of **XML** , has taken the steam out of it, e-commerce vendors say."OBI has not turned...

... supported," says Mike Micucci, director of product marketing for Commerce One. The upshot is that **XML** doesn 't make business-to-business e-commerce easy, just easier. Integration between ...vice president of business-to-business e-commerce for Staples in Framingham, Mass. Staples uses **XML** and OBI to conduct e-commerce with its business customers. Staples integrates its catalogs with...

... systems or proprietary office-supply applications. While her customers frequently request that such integration use **XML** , Kean says that with all the variations, it 's not the quick process her customers imagine it to be. "I don 't see a pattern, other than variations of **XML** ," she says. "Each procurement system has its own version, and that 's what we have..."

... awful lot of undercooked standards work. Network executives should begin by scouting out all relevant **XML** work being done in their companies ' industries, via their suppliers and customers as well as organizations such as OASIS ([www.xml.org](http://www.xml.org)). Executives should further study the construct of that work DTD or **schema** to evaluate the possible effect on the network. Likewise, every enterprise should be taking note...

11/5,K/2 (Item 2 from file: 674)  
DIALOG(R) File 674:Computer News Fulltext  
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079552

#### **DSML helps directories work together**

Byline: TODD HAY

Journal: Network World Page Number: 47

Publication Date: November 22, 1999

Word Count: 612 Line Count: 60

#### **Text:**

... this change by breaking up enterprise applications into small components of functionality, wrapping them in **XML** and preparing to share them with customers and partners. As this transformation plays out, network ...

...the emerging standard that expresses directory content in the Internet's lingua franca for commerce - **XML** . Directories typically store and manage information about each user in an enterprise - including names, addresses ...

...be, who wrote them and how to pay for them. Combined with the power of **XML** , this information enables whole new classes of individually tailored applications for e-commerce. DSML 1...

... World Wide Web Consortium and the BizTalk initiative - is being pushed by Bowstreet Software, IBM, **Microsoft** , Novell, Oracle and the Sun-Netscape Alliance. DSML defines the **XML schema** for describing directory structure and data. Applications consume DSML documents as they

would **XML** because DSML is a subset of **XML** . Applications can transmit DSML documents to other DSML-enabled applications on the Internet. This process...

... directories work together. DSML reconciles the differences by providing a third language both directories speak, **XML** . A real-life DSML transaction might begin with an **XML** -enabled application making an HTTP request to a Web service that queries a directory through LDAP or directory APIs. The resulting DSML document (containing directory data) is returned to the **XML** application over the Web. The application then **parses** the **XML** using standard Extensible Stylesheet Language to integrate the directory data into a purchase order form, for example, within the application. With DSML, an **XML** application could request data and **schema** information from directories and consolidate this into one document. To DSML-enable their directories, network...

11/5,K/3 (Item 3 from file: 674)  
DIALOG(R)File 674:Computer News Fulltext  
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076111

**Directory update: Novell and Microsoft actually agree on XML-based standard**

Byline: John Fontana

Journal: Network World

Publication Date: July 13, 1999

Word Count: 639 Line Count: 62

**Directory update: Novell and Microsoft actually agree on XML-based standard**

Text:

... This could turn out to be a milestone in the history of directory interoperability. IBM, **Microsoft** , Novell, Oracle and Sun-Netscape all lined up behind a proposed extension to the **Extensible Markup Language** ( **XML** ). This extension will let directories exchange information about the data they hold. Achieving that level...

... impossible today without a rich set of tools since directory vendors use different formats, or **schema** , to describe the information they hold. Getting directories to exchange data is important for electronic...

... directory regardless of the format the data is in. That data, which is exchanged using **XML** , can then be used in Web-based applications to identify and control the users access...

... implementation this fall. "DSML gets directory information into a format that can be used by **XML** -based e-commerce applications," said Todd Hay, product manager for Bowstreet. "It helps pull the...

... DSML is only a baseline requirement for directory enabling Web applications, the fact that rivals **Microsoft** and Novell are among those committed to it is significant. "The ability for the directory...

... said Jamie Lewis, president of The Burton Group. "These vendors will never agree on standardized **schema** , but they have agreed on how they describe their **schema** ." Directory **schema** is used to name objects and attributes, such as an address or telephone number. DSML...

... a common way. DSML turns directory data into plain text, which developers can use to **parse** into Web-based applications. "This is one thing that has to be done for business...

... they did not specify which ones. The World Wide Web Consortium oversees the development of **XML** . Bowstreet also announced its Web Service Architecture, a platform for building on-the-fly e...

... supporting sales and distribution channels on the Internet. Also at the

conference, Novell introduced its **XML**-based metadirectory tool, DirXML, for connecting Novell Directory Services to other directories using **XML** and the Extensible Style Language. Novell was expected to call the tool Directory Integrator, but changed the name to more closely associate it with **XML**. **Microsoft** and Cisco announced they extended their development agreement based on Active Directory and Cisco networking...

... Services for Active Directory, a host of networking services built on the forthcoming directory from **Microsoft**. Control Data Systems Tuesday unveiled Patrol, a set of security services for directories and messaging...

11/5,K/4 (Item 1 from file: 813)  
DIALOG(R) File 813:PR Newswire  
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1459821 CHTH016  
**Extensibility Enters Emerging XML Market With Innovative  
Schema-Development, Conversion and Management Tool**

DATE: April 22, 1999 10:43 EDT WORD COUNT: 760

CHAPEL HILL, N.C. April 22 /PRNewswire/ -- Extensibility today announced the beta release of XML Authority, a new class of schema development tools designed to allow XML developers to quickly model, create and manage XML schemas from a variety of sources. XML Authority can construct schemas from many sources including existing Document Type Definitions (DTDs), Java classes, ODBC data structures, COM objects and XML documents -- enabling users to easily migrate existing application schema to XML.

XML Authority's ability to output schemas in multiple formats means that developers can support new standards without compromising corporate mandates or emerging standards. Schema output formats include standard DTD syntax, **Microsoft**'s XML-Data, Data Definition Markup Language (DDML), Document Content Description (DCD), Schema for Object Oriented XML (SOX) and an example XML document. XML Authority fully supports the XML 1.0 schema specification, enhancing it with support for data typing and namespaces. With the introduction of **Microsoft**'s Internet Explorer 5 and its support for XML-Data, users can easily convert existing schema formats for use with IE5.

XML-based schemas identify the objects, properties and relationships for XML solutions. XML Authority allows developers to quickly create, modify and manage these elements in a visual environment, streamlining the process and thus improving productivity. According to Extensibility President and CEO Reid Conrad, "Moving existing information systems to XML shouldn't be hard. XML Authority accelerates the migration effort. Equally important, XML Authority will facilitate the creation and management of Internet enabled enterprise, industry and application vocabularies."

XML Authority features a graphical user interface that allows users to import or create schemas, and view document elements, attributes, entities, and other objects in a hierarchical tree. This makes it easy to view structures and relationships for a class of documents. With cut and paste support, modular schema development is easily achieved. Collaborative schema management within and between organizations is enhanced with audience-specific notes and change logging support.

#### The Importance of Schemas and XML Authority

Schemas serve several important functions that run throughout the application lifecycle. "While XML enables applications to talk to each other, schemas ensure that they understand each other," according to Lee Buck, Chief Technology Officer.

XML schemas define "vocabularies" representing the components and rules for describing information. These vocabularies are Internet enabled and may

be readily shared. Trade groups might use schemas to create a common vocabulary that makes it convenient to express ideas and standards in their domain. Corporations may create vocabularies representing e-commerce transactions and share them with suppliers and customers. The content represented by a vocabulary may be found in databases, Web Pages, middleware messages, or XML enabled applications.

As part of this process, applications must **validate** structures and objects to ensure they are receiving the correct information appropriately formatted. Even when **validation** is not required, **schemas** serve as an important part in documenting **XML** applications. **Schemas** also play an important role in information retrieval. By describing content, metadata embedded within an **XML** **schema** provide information-retrieval applications a new level of precision.

At the enterprise level, element collections from different departments will likely be stored in dictionaries as XML becomes more pervasive. An enterprise application could then look up a schema, representing, say, the fields from a database table, and output it into a data structure that can be used in programming the database.

#### Growing Market/Growing Support

XML was originally designed to solve limitations associated with HTML. However, the XML phenomenon quickly spread to other markets and is now broadly supported in database, middleware, financial, data interchange, and document management applications. Leading vendors supporting the XML initiative with commercial products include Adobe, Corel, IBM, **Microsoft**, Oracle, PeopleSoft, Quark SAP, and Sun Microsystems. The common component to all of these applications lies in XML and XML schemas. As the use of XML grows, so will the need to convert, edit, and manage large collections of schemas defined in different environments.

#### Pricing & Availability

The beta version of XML Authority is available for downloading now at [www.extensibility.com](http://www.extensibility.com). It is free during the beta period.

The single-user license of XML Authority is expected to be priced at \$99.95 when it becomes commercially available. Corporate licenses will be available.

#### About Extensibility

Extensibility provides cutting-edge XML schema development, conversion and management solutions. Extensibility's tools facilitate the transition of traditional applications to the next generation of Internet information systems.

Extensibility and XML Authority are trademarks of Extensibility, Inc. All others are properties of their respective holders.

[www.extensibility.com](http://www.extensibility.com)

SOURCE Extensibility, Inc.

CONTACT: Reid Conrad of Extensibility, Inc., 919-968-4669,  
[reidc@extensibility.com](mailto:reidc@extensibility.com)

Web site: <http://www.extensibility.com>

COMPANY NAME: EXTENSIBILITY, INC.

PRODUCT: COMPUTER, ELECTRONICS (CPR)

DESCRIPTORS: NEW PRODUCTS & SERVICES (PDT)

STATE: NORTH CAROLINA (NC)

SECTION HEADING: BUSINESS; TECHNOLOGY

...standards without compromising corporate mandates or emerging standards. Schema output formats include standard DTD syntax, **Microsoft**'s XML-Data, Data Definition Markup Language (DDML), Document Content Description (DCD),

\* Schema for Object...

... schema specification, enhancing it with support for data typing and namespaces. With the introduction of **Microsoft** 's Internet Explorer 5 and its support for XML-Data, users can easily convert existing...

...Web Pages, middleware messages, or XML enabled applications.

As part of this process, applications must **validate** structures and objects to ensure they are receiving the correct information appropriately formatted. Even when **validation** is not required, **schemas** serve as an important part in documenting **XML** applications. **Schemas** also play an important role in information retrieval. By describing content, metadata embedded within an **XML** **schema** provide information-retrieval applications a new level of precision.

At the enterprise level, element collections...

... management applications. Leading vendors supporting the XML initiative with commercial products include Adobe, Corel, IBM, **Microsoft**, Oracle, PeopleSoft, Quark SAP, and Sun Microsystems. The common component to all of these applications...

11/5,K/5 (Item 2 from file: 813)  
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1217899 SFTU029  
Microsoft , ArborText, DataChannel and Inso Submit XML-Data Specification  
To W3C

DATE: January 27, 1998 14:40 EST WORD COUNT: 1,066

REDMOND, Wash. Jan. 27 /PRNewswire/ -- **Microsoft** Corp. (Nasdaq: MSFT), ArborText Inc., DataChannel Inc. and Inso Corp. today announced that the World Wide Web Consortium (W3C) has acknowledged their submission of an Extensible Markup Language (XML) data proposal. The XML-Data specification outlines richer capabilities for developers to describe and validate data, making XML even better for integrating data from multiple, disparate sources and building three-tiered Web-enabled applications. The specification is available at <http://www.microsoft.com/xml/> and <http://www.w3.org/TR/1998/NOTE-XML-data-0105/>

XML-Data extends the current XML specification in process at the W3C. New features of the XML-Data specification include the following:

An XML-based syntax for schemas. Schemas define the rules of an XML document, including element names, which elements can appear in combination, and which attributes are available for each element. Schemas provide an improved method of making XML-based data self-describing to applications that do not already contain built-in descriptions of the data.

A model for extending **XML** elements. **XML** -Data provides a mechanism by which developers can further specify characteristics about particular elements. This allows developers to augment **schemas** with additional information such as data types, inheritance, **validation** and presentation rules.

"XML, since its inception, has provided extraordinary promise for information sharing across the Web," said Adam Bosworth, general manager of the server applications division at **Microsoft**. "XML-Data will make it possible for XML to realize this promise and will lead to the widespread sharing of information everywhere."

"DataChannel is pleased to work with **Microsoft**, Inso and ArborText on the submission of the XML-Data spec to the W3C," said Tim Gelinas, vice

president of engineering at DataChannel. "XML-Data will foster the development of new and revolutionary applications for the exchange of data between Web-based applications."

#### XML-Data Makes XML Even More Extensible and Powerful

With the XML-based syntax for schemas outlined in the XML-Data specification, data is more self-describing. For example, a general purpose inventory-tracking application can extract information from a purchase order and find details about the record's structure in the purchase order's schema, without having been written specifically for purchase order processing.

In addition, with XML-Data, developers now have a model to define data types, providing information about the storage format. This allows developers to more precisely describe data for exchange between applications. XML-Data contains a large built-in set of data types, covering all popular database and programming language types, and it permits developers to define new types. For instance, the XML-Data schema could specify that the data contained between ~price tags is a number and the data contained between ~ birth date tags is a date.

"XML brings to the Web an ability to model text and data more accurately and usefully than before," said Paul Grosso, vice president of research at ArborText. "We're excited about XML-Data because it offers strong data-typing abilities, which can increase XML's ability to capture the rich schematic information that databases can work with today."

With XML-Data, developers can also specify element-type inheritance, similar to that found in object-oriented programming languages. Using inheritance, a bookstore, for instance, could start with a standard electronic commerce purchase order schema, then tailor it to form a bookstore purchase order schema.

"XML gives unprecedented power and ease to authors of structured data," said Steven J. DeRose, chief scientist at Inso and a member of the XML Committee. "XML-Data promises to make the task of exchanging information about new XML tags far easier to manage in a diverse, worldwide environment."

#### About ArborText

Based in Ann Arbor, Mich., ArborText develops and supports software that makes the process of capturing and delivering knowledge more effective. Global 5,000 organizations use the company's products to author, catalog and reuse information stored in document databases.

In production use since 1991, ArborText software is the keystone of high-volume document assembly systems at companies such as The Boeing Company, Digital Equipment Corp., Ford Motor Co., Grolier's Encyclopedia, Lockheed Martin Corp., National Semiconductor Corp. and Sun Microsystems Inc.

For more information about ArborText's products, consulting services and training programs, call 313-997-0200, send e-mail to [info@arbortext.com](mailto:info@arbortext.com), or visit the ArborText Web site at <http://www.arbortext.com/>.

#### About DataChannel

A member of the W3C and based in Bellevue, Wash., DataChannel is a pioneer in enterprise content routing solutions, focused on instant distribution of organized content. The company's first product, ChannelManager, combines the power of an XML-driven database engine with real-time TIB notification (Nasdaq: RTRSY) working with Netscape's Communicator and NetCaster (Nasdaq: NSCP) or **Microsoft** Active Channel(TM) content and Internet Explorer.

DataChannel's tools enable corporations to get "The Right Information to the Right Person at the Right Time." The company was reviewed by Forrester Research and positioned as one of the few webcast vendors providing "fully intelligent, interactive suites" along with **Microsoft**, Netscape and Yahoo! Additional information about DataChannel and its products can be found at <http://www.datachannel.com/>.

#### About Inso

Inso Corporation (Nasdaq: INSO) is a leading global supplier of software solutions for sharing and publishing electronic information. Inso provides solutions for effective distribution of all forms of electronic information, from the simplest memo to the most complex technical manual, in environments ranging from computer desktops to the Internet. Through integration in the world's most popular software products, bundling agreements and distribution channels, Inso technology is installed on over 70 million desktops worldwide. Information about Inso and its products can be found at <http://www.inso.com/>.

#### About **Microsoft**

Founded in 1975, **Microsoft** is the worldwide leader in software for personal computers. The company offers a wide range of products and services for business and personal use, each designed with the mission of making it easier and more enjoyable for people to take advantage of the full power of personal computing every day.

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SOURCE **Microsoft** Corp.

NOTE TO EDITORS: If you are interested in viewing additional information on **Microsoft**, check out the **Microsoft** Web page at <http://www.microsoft.com/presspass/> on **Microsoft**'s corporate information pages.

CONTACT: press only, Joscelyn Zell of Waggener Edstrom, 503-245-0905, or [jzell.wagged.com](mailto:jzell.wagged.com), for **Microsoft**

Web site: <http://www.microsoft.com>

(MSFT)

COMPANY NAME: **MICROSOFT** CORP.

TICKER SYMBOL: MSFT (NDQ); RTRSY (NDQ); NSCP (NDQ); INSO (NDQ)

PRODUCT: COMPUTER, ELECTRONICS (CPR); INTERNET, MULTIMEDIA, ONLINE (MLM)

STATE: WASHINGTON (WA)

SECTION HEADING: BUSINESS; TECHNOLOGY

**Microsoft**, **ArborText**, **DataChannel** and **Inso** Submit XML-Data Specification To W3C

Jan. 27 /PRNewswire/ -- **Microsoft** Corp. (Nasdaq: MSFT), **ArborText** Inc., **DataChannel** Inc. and **Inso** Corp. today announced that the World...

... sources and building three-tiered Web-enabled applications. The specification is available at <http://www.microsoft.com/xml/> and <http://www.w3.org/TR/1998/NOTE-XML-data-0105/>

XML-Data...

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A model for extending **XML** elements. **XML** -Data provides a mechanism by which developers can further specify characteristics about particular elements. This allows developers to augment **schemas** with additional information such as data types, inheritance, **validation** and presentation rules.

"XML, since its inception, has provided extraordinary promise for information sharing across the Web," said Adam Bosworth, general manager of the server applications division at **Microsoft**. "XML-Data will make it possible for XML to realize this promise and will lead to the widespread sharing of information everywhere."

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DataChannel's tools enable corporations to get "The...

... positioned as one of the few webcast vendors providing "fully intelligent, interactive suites" along with **Microsoft**, Netscape and Yahoo! Additional information about DataChannel and its products can be found at <http://www.inso.com/>.

... Information about Inso and its products can be found at <http://www.inso.com/>.

#### About **Microsoft**

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SOURCE **Microsoft** Corp.

NOTE TO EDITORS: If you are interested in viewing additional information on **Microsoft**, check out the **Microsoft** Web page at <http://www.microsoft.com/presspass/> on **Microsoft**'s corporate information pages.

CONTACT: press only, Joscelyn Zell of Waggener Edstrom, 503-245-0905, or [jjzell@wagged.com](mailto:jjzell@wagged.com), for **Microsoft**

Web site: <http://www.microsoft.com>

(MSFT)

COMPANY NAME: **MICROSOFT** CORP.

11/5,K/6 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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08631011 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Extensibility's XMLschema.com Goes Live; New Site Provides Ubiquitous Support for Managing and Exchanging XML-Based E-Business Grammars**  
BUSINESS WIRE  
December 09, 1999  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 699

CHAPEL HILL, N.C.--(BUSINESS WIRE)--Dec. 8, 1999--Extensibility Inc., creators of the industry leading XML schema design and conversion solution XML Authority, launched XMLschema.com -- a Web site that provides ubiquitous access to automated processors for the management and exchange of e-business grammars.

Initial services provided on the site include Extensibility **XML schema validation** and conversion services.

Copyright 1999 Business Wire. Source: World Reporter (Trade Mark).

DESCRIPTORS: New Products & Services; Marketing; Company News; Facilities & Equipment

SIC CODES/DESCRIPTIONS: 5961 (Catalog & Mail Order Houses)

NAICS CODES/DESCRIPTIONS: 45411 (Electronic Shopping & Mail-Order Houses)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...management and exchange of e-business grammars.

Initial services provided on the site include Extensibility **XML schema validation** and conversion services.

... and adoption of rules for information interchange."

Current service offerings on the site include:

-- Extensibility **Validation** Services: Users can test **XML schemas** for syntactical **validation** and receive reports confirming **validity** or reporting errors.

-- Extensibility Conversion Services: Users can automatically convert their XML schemas into other schema dialects, enabling exchange of XML grammars across heterogeneous environments.

Initially, XMLschema.com will support **Microsoft** 's XDR and BizTalk, Commerce One's Common Business Library and SOX schema dialect, and Document Type Definitions (DTDs).

**Microsoft** 's BizTalk.org initiative leverages XMLschema.com to help automate the posting of **validated schemas** for the BizTalk framework. "The BizTalk Framework aims to accelerate the adoption of **XML** with a set of design guidelines that encourage the consistent development of **XML schemas** ," said James Utzschneider, director of business frameworks for **Microsoft** .

"XMLschema.com hosts the first commercially available services to provide schema validation and conversion services...

... XML schemas provide e-commerce applications contracts enabling certain transaction automation.

About BizTalk

Introduced by **Microsoft** (Nasdaq:MSFT) in March, the BizTalk Framework makes it easy for businesses to exchange information...

... an XML schema and a set of XML tags used in messages sent between applications.

**Microsoft** , other software companies and industry standards bodies will use the BizTalk Framework to produce XML...

...next generation e-business applications.

Extensibility is a strategic partner with leading companies such as **Microsoft** (MSFT; <http://www.microsoft.com/>), Commerce One (CMRC; <http://commerceone.com/>), OneSoft (<http://www.onesoft.com/>), Quark (<http://www...>

11/5,K/7 (Item 2 from file: 20)

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08624074 (USE FORMAT 7 OR 9 FOR FULLTEXT)

DATACHANNEL: DataChannel and Extensibility partner to advance XML leadership

M2 PRESSWIRE

December 08, 1999

DEC 8, 1999, M2 Communications - Philadelphia, PA -- XML '99 -- In a joint announcement from XML '99, DataChannel and Extensibility have partnered to deliver advanced XML industry solutions. The collaborative efforts from this alliance will help businesses leverage existing information systems by synchronizing data exchange from disparate systems, differing schemas, and e-business applications.

Extensibility, the foremost authority on XML Schema management, will create a **validated schema** for DataChannel's Portal Markup Language 1.0. (PML 1.0). PML 1.0 has been submitted and accepted by the OASIS group as the first industry standard markup language for content display and management by an Enterprise Information Portal. XML Authority, Extensibility's unparalleled **schema** processing and **validation** server will contain PML 1.0 support in its next release. DataChannel will accelerate its lead in providing XML training and solutions by becoming the lead training partner for Extensibility, creating new curriculum and certification for XML Authority as well as other company offerings. These courses, along with other advanced tutorials from DataChannel will be will be offered in both open-enrollment and customized training sessions, available the first half of next year.

Copyright 1999 M2 Communications Ltd.. Source: World Reporter (Trade Mark).

DESCRIPTORS: Company News; Trade Fairs & Exhibitions; Marketing; Joint Ventures; Strategy; Product Management  
COUNTRY NAMES/CODES: United States of America (US)  
REGIONS: Americas; North America; Pacific Rim  
PROVINCE/STATE: Pennsylvania  
SIC CODES/DESCRIPTIONS: 7372 (Prepackaged Software)  
NAICS CODES/DESCRIPTIONS: 51121 (Software Publishers)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

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... engagements.

"We continue our commitment to providing our customers and partners with the most advanced XML -based solutions in the industry. In the realm of XML **schema** management, Extensibility stands alone. We are extremely fortunate that we are able to partner with...

...these services for our respective customers", said Lucie Fjeldstad, CEO, DataChannel, Inc. "Extensibility excels at **schema** processing and we give customers a way to manage those **validated XML** documents with our portal."

"Our customers are developing some amazing applications with our products. This...

... next generation e-business applications. Extensibility is a strategic partner with leading companies such as Microsoft (MSFT; <http://www.microsoft.com/>), CommerceOne (CMRC; <http://commerceone.com/>), OneSoft (<http://www.onesoft.com/>) and Quark ([www.quark...](http://www.quark.com/)

11/5,K/8 (Item 3 from file: 20)  
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08623391 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
MICROSOFT : Microsoft announces finalized BizTalk framework  
M2 PRESSWIRE  
December 08, 1999  
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 1356

DEC 8, 1999, M2 Communications - REDMOND, Wash. -- **Microsoft Corp.** today announced availability of the BizTalk Framework Document Specification 1.0, an updated component of the framework based on Extensible Markup Language (XML) schemas and industry standards for sharing information. The **Microsoft** BizTalk Framework provides specifications for the design and development of XML-based solutions for communication between applications and organizations by leveraging standard Internet technologies such as XML, XML schema and MIME. This data-focused approach allows businesses to easily exchange XML documents with online trading partners and internal systems regardless of the platform, operating system or the underlying technology of their existing systems.

**Microsoft** submitted the BizTalk Framework Document Specification 1.0 to the BizTalk Steering Committee -- composed of industry-leading vendors, standards bodies and corporate customers -- for review in September. The committee finalized and published the document specifications on the BizTalk.Org Web site (<http://www.biztalk.org/>), a public online library of shared XML information, resources and business document schema. Any individual or organization can access the specifications and use them to implement e-commerce and application integration solutions using the BizTalk Framework. With the final version of the specification now available, corporate developers and independent software developers can immediately embark on the development of BizTalk-compatible applications.

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COMPANY NAMES: **Microsoft** Corp  
DESCRIPTORS: New Products & Services; Marketing; Company News  
COUNTRY NAMES/CODES: United States of America (US)  
REGIONS: Americas; North America; Pacific Rim  
SIC CODES/DESCRIPTIONS: 7372 (Prepackaged Software)  
NAICS CODES/DESCRIPTIONS: 51121 (Software Publishers)

(USE FORMAT 7 OR 9 FOR FULLTEXT)  
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**Microsoft** submitted the BizTalk Framework Document Specification 1.0 to the BizTalk Steering Committee -- composed of...

... of business today," said Charles Fitzgerald, director of business development for the Developer Division at **Microsoft**. "Getting different applications to 'talk' to each other is a major technical hurdle, which has ...

... and routing information. They act as an "envelope" for the business

information to be transmitted. **Microsoft**, other software companies and industry-standard bodies will use the BizTalk Framework to produce XML...

... Technologies Inc., Data Interchange Standards Association (DISA), J.D. Edwards & Co., Merrill Lynch & Co. Inc., **Microsoft**, New Era of Networks (NEON), The Open Applications Group (OAG), PeopleSoft Inc., Pivotal Corp., RosettaNet...

... about the BizTalk Framework is available at <http://www.biztalk.org/>. More information about the **Microsoft** BizTalk Framework initiatives is available at <http://www.microsoft.com/industry/biztalk/>.

#### About the BizTalk.Org Web Site

The BizTalk.Org Web site serves as the online reference for the BizTalk Framework specifications, **schemas**, reference materials, tools, sample applications and a community newsgroup. The Web site is an open repository for the submission and publication of **XML schemas**, business documents and messages expressed in **XML**. The **schemas** allow organizations to exchange documents in generally understood business terminology and integrate the data from...

... documents with their existing applications. In addition, the Web site provides an updated submission and **schema validation** process. Users can freely use **XML schemas** from the BizTalk Web site within their applications, as long as the **schemas** are published for public use by the owner or author of the **schema**. Businesses also have the option of publishing the **schemas** in a secure area on the Web site for private use between trading partners.

#### About **Microsoft**

Founded in 1975, **Microsoft** (Nasdaq "MSFT") is the worldwide leader in software for personal and business computing. The company...

...designed to empower people through great software -- any time, any place and on any device. **Microsoft** and BizTalk are either registered trademarks or trademarks of **Microsoft** Corp. in the United States and/or other countries. Other product and company names herein...

...chain scenarios by providing a common XML-based dialogue. We are in full support of **Microsoft** BizTalk Framework." -- Peter Hoversten Senior Vice President for Product Strategy New Era of Networks Inc...

...and business processes. It offers an XML-compliant API that supports any XML schema, including **Microsoft** BizTalk Framework 1.0. Our BusinessBus software simplifies the integration of BizTalk and legacy applications...a proponent of standards-based e-business, as well as a leading member of the **Microsoft** ISV community, Pivotal enthusiastically endorses the BizTalk Framework 1.0. Our vision for personalized Internet...

COMPANY NAMES: **Microsoft** Corp

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08605298 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**DataChannel and Extensibility Partner to Advance XML Leadership;**  
**Extensibility to Support PML 1.0; DataChannel Extends Training**  
BUSINESS WIRE  
December 07, 1999  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 982

PHILADELPHIA--(BUSINESS WIRE)--Dec. 7, 1999--In a joint announcement from XML '99, DataChannel and Extensibility have partnered to deliver advanced XML industry solutions.

The collaborative efforts from this alliance will help businesses leverage existing information systems by synchronizing data exchange from

disparate systems, differing schemas, and e-business applications.

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DESCRIPTORS: Company News  
PROVINCE/STATE: Pennsylvania

(USE FORMAT 7 OR 9 FOR FULLTEXT)

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... first industry standard markup language for content display and management by an Enterprise Information Portal.

**XML Authority** (TM), Extensibility's unparalleled **schema** processing and **validation** server will contain PML 1.0 support in its next release. DataChannel will accelerate its...

... for our respective customers," said Lucie Fjeldstad, chief executive officer, DataChannel Inc. "Extensibility excels at **schema** processing and we give customers a way to manage those **validated XML** documents with our portal."

"Our customers are developing some amazing applications with our products. This...

...next generation e-business applications.

Extensibility is a strategic partner with leading companies such as **Microsoft** (MSFT; <http://www.microsoft.com/>), CommerceOne (CMRC; <http://commerceone.com/>), OneSoft (<http://www.onesoft.com/>) and Quark ([www.quark...](http://www.quark.com/)

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08236711 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Sun-Netscape Alliance Unveils Solutions for Developing Internet Trading Communities**

PR NEWswire

November 15, 1999

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1333

Relationships with Edifecs Commerce and Receipt.com Will Provide iPlanet(TM) Customers With XML-Tool Set and Ability to Track and Audit E-Transactions

MOUNTAIN VIEW, Calif., Nov. 15 /PRNewswire/ -- Contributing to its strategy for enabling the industry to create and develop Internet trading communities, the Sun-Netscape Alliance today introduced the iPlanet(TM) TradingXpert 3.5 application to help companies build trading communities that leverage their current technology investments. The Alliance also announced that it is embedding technologies from Receipt.com and Edifecs Commerce into the iPlanet commerce exchange applications to provide customers with an enhanced ability to exchange business critical data in a secure manner and conduct legally binding, auditable transactions over the Internet.

Copyright 1999 PR Newswire. Source: World Reporter (Trade Mark).

COMPANY NAMES: iPlanet; Sun Microsystems Inc; Netscape Communications Corp

DESCRIPTORS: Company News

COUNTRY NAMES/CODES: United States of America (US)

REGIONS: Americas; North America; Pacific Rim

PROVINCE/STATE: California

SIC CODES/DESCRIPTIONS: 7375 (Information Retrieval Services)

NAICS CODES/DESCRIPTIONS: 514191 (On-Line Information Services)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... to address these requirements.

The Alliance will leverage Edifecs Commerce's SpecBuilder product, the dominant **schema** -authoring suite in the market, to help enable customers to rapidly create new transaction sets for EDI, **XML** and other file formats that meet diverse trading partner requirements. Additionally the Alliance will use Edifecs Commerce's Message **Validation** technology, giving users the ability to verify compliance of their partner's data files' established **schemas** and message guidelines.

Leveraging technology from Receipt.com, the Alliance will deliver next generation authentication widely available product platforms, including DEC, HP, IBM, Linux, SGI, **Microsoft** Windows, and Sun. The Alliance software product portfolio includes: messaging and calendar, collaboration, web, application...

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08185132 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Icon Information-Systems Announces Release of Version 3.0 of XML Spy Product**

BUSINESS WIRE

November 11, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 410

VIENNA, Austria--(BUSINESS WIRE)--November 11, 1999--Icon Information-Systems announces the release of version 3.0 of its highly-acclaimed **XML** Spy product, which will be showcased at COMDEX, Las Vegas, next week. **XML** Spy is a professional **validating XML** editor that lets you edit all **XML**, **XSL**, **Schema**, and **DTD** files and provides four integrated views on the documents:

-- The Enhanced Grid and Database View shows the entire structure of an XML document in a hierarchical presentation that allows in-place editing of all elements. Sequences of repeating elements are automatically transformed into a spreadsheet-like display.

Copyright 1999 Business Wire. Source: World Reporter (Trade Mark).  
DESCRIPTORS: Trade Fairs & Exhibitions; Marketing; Company News; New Products & Services  
COUNTRY NAMES/CODES: United States of America (US) ; Austria (AT)  
REGIONS: Americas; North America; Pacific Rim; Europe; European Union; Western Europe  
PROVINCE/STATE: Vienna

(USE FORMAT 7 OR 9 FOR FULLTEXT)

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-- The Enhanced Grid and...

... American Express, Andersen Consulting, Compaq, Dell, Ernst&Young, Gateway, GTE, Hitachi, HP, IBM, JP Morgan, **Microsoft**, NTT, Oracle, Siemens, Sony, and Toshiba.

Version 3.0 includes a broad range of new...

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08070233 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Extensibility Continues to Rule the XML e-Business Vocabularies and Grammar Space; Releases XML Authority 1.1**

BUSINESS WIRE

November 04, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 465

CHAPEL HILL, N.C.--(BUSINESS WIRE)--Nov. 4, 1999--

Industry Leading XML Schema Solution Provides Interoperability

Copyright 1999 Business Wire. Source: World Reporter (Trade Mark).

SIC CODES/DESCRIPTIONS: 5961 (Catalog & Mail Order Houses)

NAICS CODES/DESCRIPTIONS: 45411 (Electronic Shopping & Mail-Order Houses)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... the use of XML schema to ensure the integrity of automated transactions and information interchange.

" XML Authority 1.1's support for all major XML schema dialects provides users much needed interoperability as XML becomes the mainstream means for e-business content exchange," said Reid Conrad, president and CEO of Extensibility. "We will soon be complementing XML Authority 1.1 with automated Internet-based processors for e-business rules validating and conversion."

Major enhancements to XML Authority 1.1 include:

-- Interoperability across all major schema dialects including DTDs, Microsoft's XDR and BizTalk-compatible framework, Commerce One's SOX Versions 1 and 2, and...

...next generation e-business applications.

Extensibility is a strategic partner with leading companies such as Microsoft (MSFT; <http://www.microsoft.com/>), CommerceOne (CMRC; <http://commerceone.com/>), OneSoft (<http://www.onesoft.com/>), Quark ([www.quark.com](http://www.quark.com)...

11/5,K/13 (Item 8 from file: 20)

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07518707 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**aecXML Project Unites Broad Coalition; Committees on Two Continents Moving Forward at Rapid Pace, Continuing on the Work Initiated by Bentley**

BUSINESS WIRE

September 30, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1483

PHILADELPHIA--(BUSINESS WIRE)--Sept. 30, 1999--

Microsoft Validates Importance of XML Schemas

Copyright 1999 Business Wire. Source: World Reporter (Trade Mark).

COMPANY NAMES: Microsoft Corp

PROVINCE/STATE: Pennsylvania

SIC CODES/DESCRIPTIONS: 8651 (Political Organizations)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

PHILADELPHIA--(BUSINESS WIRE)--Sept. 30, 1999--

Microsoft Validates Importance of XML Schemas

... the aecXML Project occurred September 15, 1999, simultaneously in Dallas, Texas and Reading, UK, via Microsoft's satellite teleconference facilities. Participants hailed the meeting as an unqualified success, and were quick...



... representing every major type of organization in A/E/C, came to the first meeting.

**Microsoft** is indirectly involved in the establishment of aecXML through its BizTalk initiative, a repository of a number of XML "dialects" created by specific commercial interest groups.

**Microsoft** president Steve Ballmer was quoted in the Wall Street Journal on September 16th as saying...

... in on the fact that it was XML." The paper reported that Ballmer announced that **Microsoft** is reorienting most of its software development around XML.

Since the first aecXML Project meeting...

COMPANY NAMES: **Microsoft** Corp

11/5,K/14 (Item 9 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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06125340 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Extensibility Announces First Commercial Product for BizTalk Framework Schema Validation; Extensibility to Provide Enhanced Schema Facilities for the BizTalk Framework**

BUSINESS WIRE

July 09, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 664

CHAPEL HILL, N.C.--(BUSINESS WIRE)--July 9, 1999--Extensibility Inc. Friday announced the first commercial product for BizTalk Framework schema validation.

XML Authority 1.1 will provide import and output support for BizTalk Framework compatible schemas and for the XDR schema format and for the W3C schema specification when it becomes available. It will also provide advanced support for XML namespaces.

Copyright 1999 Business Wire. Source: World Reporter (Trade Mark).

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... encourage the consistent development of XML schemas," said James Utzschneider, director of business frameworks for **Microsoft**.

"Extensibility's XML Authority will facilitate this goal by providing migration tools that customers can...

... officer, "existing schema formats such as DTDs, can easily be ported to the BizTalk Framework."

**XML** Authority 1.1 is the first commercial product to provide **schema validation** for the BizTalk framework. "This will enable users to get started now in developing BizTalk Framework compatible applications," Conrad added. "Developers who want to publish for **schemas** in the BizTalk.Org **schema** repository will be assured that their **schemas** meet the BizTalk Framework specification."

Extensibility is working with **Microsoft** on advanced facilities for the publishing and access of valid BizTalk Framework schemas on the...

... efforts will ensure full implementation support with future products compatible with the BizTalk Framework from **Microsoft** and Extensibility.

"Our joint efforts will quickly enable the potential of XML and schemas for...

...use trial version may also be downloaded from the Extensibility site.

About BizTalk

Introduced by **Microsoft** (NASDAQ:MSFT) in March, the BizTalk Framework makes it easy for businesses to exchange information...

... an XML schema and a set of XML tags used in messages sent between applications.

**Microsoft**, other software companies and industry standards bodies will use the BizTalk Framework to produce XML...

...and is a member of the W3C Schema Working Group and OASIS.

Note to Editors: **Microsoft** and BizTalk are trademarks of **Microsoft** Inc. Extensibility and XML Authority are trademarks of Extensibility Inc. All others are properties of...

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**W3C Issues Associating Style Sheets with XML as a Recommendation; Allows XML to Leverage Display Power, Flexibility of CSS**

BUSINESS WIRE

June 29, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 735

[Bringing Style Capabilities to XML](http://www.w3.org/--(BUSINESS WIRE)--June 29, 1999--The World Wide Web Consortium (W3C) today releases Associating Style Sheets with XML Documents as a W3C Recommendation, representing cross-industry and expert community agreement on the first efforts for allowing style sheets to be associated with an XML document, thus bringing a wider range of design and display options to XML authors. A W3C Recommendation indicates that a specification is stable, contributes to Web interoperability, and has been reviewed by the W3C membership, who favor its adoption by the industry.</a></p></div><div data-bbox=)

Copyright 1999 Business Wire. Source: World Reporter (Trade Mark).

DESCRIPTORS: New Products & Services; Marketing; Company News; Joint Ventures; Strategy

SIC CODES/DESCRIPTIONS: 7375 (Information Retrieval Services)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... of the W3C's XML and CSS recommendations," explained James Clark, editor of the specification.

**Microsoft**, Netscape, Opera Software, and SoftQuad have products that support the new recommendation. Other vendors have...

... to develop technologies that will allow developers to place the style sheet link outside the **XML** document itself in ways that are extensible, self-documenting, and that can be **validated**. "We can now concentrate on developing a more sophisticated mechanism that takes advantage of ongoing W3C work in metadata, **schemas**, and linking," Clark added.

About the World Wide Web Consortium (W3C)

The W3C was created...

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05464770 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**MICROSOFT : Microsoft and Commerce One collaborate on XML to accelerate business-to-business e-commerce**

M2 PRESSWIRE

May 25, 1999

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 669

MAY 25, 1999, M2 Communications - DALLAS -- Building on a two-year strategic alliance, **Microsoft** Corp. and Commerce One Inc., a leading provider of electronic commerce solutions, today announced a broad collaboration around the BizTalk Framework and XML technologies to accelerate business-to-business electronic commerce by enabling greater interoperability between trading partners. As part of today's news, delivered at **Microsoft** 's Tech Ed 99 conference, the Common Business Library (CBL), a public collection of XML document building blocks developed by Commerce One, and the Commerce One MarketSite-based business documents will be submitted into the BizTalk.Org schema repository. During today's executive keynote at Tech Ed 99, the Commerce Chain Solution by Commerce One, a leading electronic procurement solution, was demonstrated using CBL and BizTalk Framework schemas.

In addition, the Commerce Chain Solution by Commerce One will support the BizTalk Framework. As a result, **Microsoft** 's and Commerce One's customers and trading partners will be able to easily exchange business documents and integrate diverse e-commerce applications, making it easier for greater numbers of buying and selling organizations to participate in the Commerce One MarketSite. This interoperability between Commerce One and the BizTalk Framework will help customers avoid the high costs of custom integration and support for multiple document standards when establishing e-commerce relationships with trading partners.

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COMPANY NAMES: **Microsoft** Corp  
DESCRIPTORS: Joint Ventures; Strategy; Company News; New Products & Services; Marketing  
COUNTRY NAMES/CODES: United States of America (US)  
REGIONS: Americas; North America; Pacific Rim  
SIC CODES/DESCRIPTIONS: 7375 (Information Retrieval Services); 7372 (Prepackaged Software)

(USE FORMAT 7 OR 9 FOR FULLTEXT)

MICROSOFT : Microsoft and Commerce One collaborate on XML to accelerate business-to-business e-commerce

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... the Commerce Chain Solution by Commerce One will support the BizTalk Framework. As a result, **Microsoft** 's and Commerce One's customers and trading partners will be able to easily exchange...

... marketplace portal, including Commerce One MarketSite.net in North America.

"We believe this collaboration with **Microsoft** will greatly expand participation in MarketSite.net and other MarketSite trading communities around the world...

... our long-standing strategic relationship with Commerce One," said Paul Maritz, group vice president of **Microsoft** 's Developer Group. "Leveraging Commerce One's XML expertise and its Common Business Library will...

...to create and translate their business documents."

To accelerate the process of developing BizTalk Framework schemas, Commerce One MarketSite and CBL will support XML -Data Reduced (XDR), the current syntax used for the BizTalk Framework, in addition to Schema for Object Oriented XML (SOX). XDR and SOX are XML -based schema languages that have been submitted to the World Wide Web Consortium (W3C) and will support the W3C schema specification when it becomes widely available. Both languages provide the rich software data representations needed to

\* classify, search, **validate** , map and dynamically interpret e-commerce business documents. E-commerce applications that support XDR and SOX will be able to use BizTalk Framework **schemas** to develop trading relationships with any organization that supports **schema** from the BizTalk.Org repository. "We strongly believe that a common business language is critical...

... commerce solutions on the Internet. "CommerceNet selected Commerce One CBL as the foundation for our **XML** interoperability framework, based on CBL's broad horizontal scope and careful analysis of numerous existing...

COMPANY NAMES: **Microsoft** Corp

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05437820 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
Microsoft and Commerce One to Collaborate on Key XML Technologies To  
**Accelerate Business-to-Business Electronic Commerce**  
PR NEWSWIRE  
May 24, 1999  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 1237

Commerce One Common Business Library and MarketSite XML Documents To Enhance BizTalk Framework to Increase Interoperability Between Businesses  
DALLAS, May 24 /PRNewswire/ -- Building on a two-year strategic alliance, **Microsoft** Corp. and Commerce One(R) Inc., a leading provider of electronic commerce solutions, today announced a broad collaboration around the BizTalk(TM) Framework and XML technologies to accelerate business-to-business electronic commerce by enabling greater interoperability between trading partners. As part of today's news, delivered at **Microsoft** 's Tech\*Ed 99 conference, the Common Business Library (CBL), a public collection of XML document building blocks developed by Commerce One, and the Commerce One MarketSite(TM)-based business documents will be submitted into the BizTalk.Org schema repository. During today's executive keynote at Tech\*Ed 99, the Commerce Chain(TM) Solution by Commerce One, a leading electronic procurement solution, was demonstrated using CBL and BizTalk Framework schemas.

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COMPANY NAMES: **Microsoft** Corp  
DESCRIPTORS: Trade Fairs & Exhibitions; Marketing; Company News; Joint Ventures; Strategy  
SIC CODES/DESCRIPTIONS: 4813 (Telephone Communications Ex Radio); 5731 (Radio Television & Electronic Stores)

(USE FORMAT 7 OR 9 FOR FULLTEXT)  
Microsoft and Commerce One to Collaborate on Key XML Technologies To  
**Accelerate Business-to-Business Electronic...**

...Increase Interoperability Between Businesses  
DALLAS, May 24 /PRNewswire/ -- Building on a two-year strategic alliance, **Microsoft** Corp. and Commerce One(R) Inc., a leading provider of electronic commerce solutions, today announced...

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"We strongly believe that a common business language is critical...

... an XML schema and a set of XML tags used in messages sent between applications. **Microsoft**, other software companies and industry standards bodies will use the BizTalk Framework to produce XML...

... information about the BizTalk Framework is available at <http://www.biztalk.org/>. More information about **Microsoft** 's BizTalk Framework initiatives is available at <http://www.microsoft.com/industry/biztalk/>.

About CommerceOne

Commerce One is a leading provider of electronic commerce solutions...

... or via the Internet at <http://www.commerceone.com/> or <http://www.marketsite.net/>.

About **Microsoft**

Founded in 1975, **Microsoft** (Nasdaq: MSFT) is the worldwide leader in software for personal computers. The company offers a every day.

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...their respective owners.

/NOTE TO EDITORS: If you are interested in viewing additional information on **Microsoft** check out the **Microsoft** Web page at <http://microsoft.com/corpinfo/> on **Microsoft** 's corporate information pages./  
/CONTACT: For Commerce One: Susan Dwyer of Commerce One, 925-941...

... com; or Stephanie Cebulski of The Horn Group, 415-905-4040, [scebulski@horngroup.com](mailto:scebulski@horngroup.com); For **Microsoft** : Sarah Gonzales, 503-226-5637, [sarahg@wagged.com](mailto:sarahg@wagged.com), or Jason Gedeik, 503-226-8234, [jasong...](mailto:jasong...)

COMPANY NAMES: **Microsoft** Corp

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03093477

**Microsoft to Deliver Advanced XML Support**  
PR NEWSWIRE

October 13, 1998

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 886

Windows to Include Industry's Most Complete Implementation of XML and XSL DENVER, Oct. 13 /PRNewswire/ -- At its Professional Developers Conference today, **Microsoft** Corp. (Nasdaq: MSFT) demonstrated the latest Extensible Markup Language ( **XML** ) technologies it will add to **Microsoft** (R) Internet Explorer 5 and the Windows(R) operating system, including **XML** 1.0, XSL, **XML** DOM and **XML** Namespaces. With these new technologies, **Microsoft** becomes the first major software vendor whose browser incorporates support for many of the latest **XML** specifications coming out of the World Wide Web Consortium (W3C). Now, the integration of these **XML** technologies into the Windows platform promises to make designing multitier applications for heterogeneous information systems faster and easier than ever. " **Microsoft** provides the most complete **XML** implementation in the industry," said Ben Meiry, director, private client architecture group at Merrill Lynch & Co. Inc., which is using **XML** to improve development time, usability, data mining and software distribution. "We're excited about **Microsoft** 's leadership on **XML** . This gives users, programmers and IT shops the ability to start planning, building and demonstrating real-world **XML** solutions. They can start preparing themselves for a future in which **XML** will be the standard language of data." **Microsoft** Leading the **XML** Charge **Microsoft** is actively involved in defining the emerging **XML** standard and will continue to implement **XML** as defined by the World Wide Web Consortium. W3C is a platform- and vendor-neutral global organization that oversees standardization of World Wide Web technologies, including **XML** . A co-founder of the W3C's **XML** Working Group, **Microsoft** enjoys broad support for its efforts from many participants in the open W3C process. " **XML** holds great promise for customers who need universal data communications with anyone, anywhere," said J. Allard, general manager of Windows DNA infrastructure at **Microsoft** . " **XML** is an important part of Windows DNA, and **Microsoft** is committed to offering the industry's best **XML** technologies with Windows." **Microsoft** will support the following key features in the next update to the Windows operating system and its Internet Explorer browsing software: \* Direct viewing of **XML** . The **Microsoft** **XML** implementation lets users view **XML** using XSL or Cascading Style Sheets with their Web browser, just as they view HTML documents. \* High-performance, validating **XML** engine. The **XML** engine familiar to Internet Explorer 4.0 developers has been substantially enhanced and fully supports W3C **XML** 1.0 and **XML** Namespaces, which let developers qualify element names uniquely on the Web and thus avoid conflicts between elements with the same name. Native **XML** support in Windows means that developers can count on the full **XML** processing capabilities being present to read and manipulate the data they move between their applications and components. \* Extensible Style Language (XSL) support. With the **Microsoft** XSL processor, based on the latest W3C Working Draft, developers can apply style sheets to **XML** data and display the data in a dynamic and flexible way that can be easily customized. The querying capabilities of the **Microsoft** XSL processor also allow developers to programmatically find and extract information within an **XML** data set on the client or the server. \* **XML** Schemas . Schemas define the rules of an **XML** document, including element names and rich data types, which elements can appear in combination, and which attributes are available for each element. In order to enable multitier applications, **Microsoft** will be releasing a technology preview for **XML** Schema based on the Schema submissions to the W3C **XML** working group. \* Server-side **XML** . Server-side **XML** processing allows **XML** to be used as a standard means of passing data between multiple distributed application servers -- even across operating system boundaries. \* **XML** document object model (DOM). The DOM is a standard object application programming interface that gives developers programmatic control of **XML** document content, structure, formats and more. The **Microsoft** **XML** implementation includes full support for the W3C **XML** DOM Recommendation and is accessible from script, the Visual Basic(R) development system, C++ and other languages. In addition to these innovations, **Microsoft** is using **XML** in its applications software. For example, the next major release of the **Microsoft** productivity suite, **Microsoft** Office 2000, elevates HTML to a companion file format and uses **XML** to store additional document information. By using **XML** in this way, Office 2000 users can save

documents as Web pages and then later return these documents to their original Office state for editing. Once again, **Microsoft** is delivering **XML** technology first, making Windows the premier platform for driving Internet standards and interoperable applications. Founded in 1975, **Microsoft** is the worldwide leader in software for personal computers. The company offers a wide range of products and services for business and personal use, each designed with the mission of making it easier and more enjoyable for people to take advantage of the full power of personal computing every day. For online product information: **Microsoft** Web page: <http://www.microsoft.com/standards/xml> / NOTE: **Microsoft**, Windows and Visual Basic are either registered trademarks or trademarks of **Microsoft** Corp. in the United States and/or other countries. Other product and company names herein may be trademarks of their respective owners. /NOTE TO EDITORS: If you are interested in viewing additional information on **Microsoft**, check out the **Microsoft** Web page at <http://www.microsoft.com/presspass> on **Microsoft**'s corporate information pages. /CONTACT: press only, Melissa Leonard, 503-245-0905, or [melissal@wagged.com](mailto:melissal@wagged.com), or Sara Murphy, 503-245-0905, or [saram@wagged.com](mailto:saram@wagged.com), both of Waggener Edstrom, for **Microsoft** / 09:01 EDT

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COUNTRY NAMES/CODES: United States of America (US)  
REGIONS: Americas; North America; Pacific Rim  
PROVINCE/STATE: Washington  
SIC CODES/DESCRIPTIONS: 7372 (Prepackaged Software)

#### **Microsoft to Deliver Advanced XML Support**

... Implementation of XML and XSL DENVER, Oct. 13 /PRNewswire/ -- At its Professional Developers Conference today, **Microsoft** Corp. (Nasdaq: MSFT) demonstrated the latest Extensible Markup Language ( **XML** ) technologies it will add to **Microsoft** (R) Internet Explorer 5 and the Windows(R) operating system, including **XML** 1.0, XSL, **XML** DOM and **XML** Namespaces. With these new technologies, **Microsoft** becomes the first major software vendor whose browser incorporates support for many of the latest **XML** specifications coming out of the World Wide Web Consortium (W3C). Now, the integration of these **XML** technologies into the Windows platform promises to make designing multitier applications for heterogeneous information systems faster and easier than ever. " **Microsoft** provides the most complete **XML** implementation in the industry," said Ben Meiry, director, private client architecture group at Merrill Lynch & Co. Inc., which is using **XML** to improve development time, usability, data mining and software distribution. "We're excited about **Microsoft**'s leadership on **XML**. This gives users, programmers and IT shops the ability to start planning, building and demonstrating real-world **XML** solutions. They can start preparing themselves for a future in which **XML** will be the standard language of data." **Microsoft** Leading the **XML** Charge **Microsoft** is actively involved in defining the emerging **XML** standard and will continue to implement **XML** as defined by the World Wide Web Consortium. W3C is a platform- and vendor-neutral global organization that oversees standardization of World Wide Web technologies, including **XML**. A co-founder of the W3C's **XML** Working Group, **Microsoft** enjoys broad support for its efforts from many participants in the open W3C process. " **XML** holds great promise for customers who need universal data communications with anyone, anywhere," said J. Allard, general manager of Windows DNA infrastructure at **Microsoft**. " **XML** is an important part of Windows DNA, and **Microsoft** is committed to offering the industry's best **XML** technologies with Windows." **Microsoft** will support the following key features in the next update to the Windows operating system and its Internet Explorer browsing software: \* Direct viewing of **XML**. The **Microsoft** **XML** implementation lets users view **XML** using XSL or Cascading Style Sheets with their Web browser, just as they view HTML documents. \* High-performance, validating **XML** engine. The **XML** engine familiar to Internet Explorer 4.0 developers has been substantially enhanced and fully supports W3C **XML** 1.0 and **XML** Namespaces, which let developers qualify element names uniquely on the Web and thus avoid

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... take advantage of the full power of personal computing every day. For online product information: Microsoft Web page: <http://www.microsoft.com/standards/xml> / NOTE: Microsoft, Windows and Visual Basic are either registered trademarks or trademarks of Microsoft Corp. in the United States and/or other countries. Other product and company names herein...

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... or Sara Murphy, 503-245-0905, or [saram@wagged.com](mailto:saram@wagged.com), both of Waggener Edstrom, for Microsoft / 09:01 EDT

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OnDisplay Delivers Rapid Application Integration with CenterStage 3.0  
PR NEWSWIRE  
September 21, 1998  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 721

Product Enables Rapid Implementation of ERP, eCommerce and Web Supersite Applications SAN RAMON, Calif., Sept. 21 /PRNewswire/ -- OnDisplay today announced the immediate availability of CenterStage 3.0, featuring a new Rapid Integration Architecture that provides rapid migration and integration capabilities without modifying existing



applications, writing custom APIs, changing IT infrastructures or requiring extensive coordination between business partners. CenterStage 3.0 is the technology foundation for OnDisplay's ERP and eCommerce integration solutions. Unlike traditional integration products which support only relational database sources, delimited files or other structured sources of data, CenterStage uses a content-driven approach which significantly accelerates application conversion and interface projects. Whether converting ERP systems or bringing up a new electronic commerce site, CenterStage provides an easy to use solution that aggregates and consolidates relational data as well as semi-structured content, from a variety of sources including HTML, XML, text, spreadsheets, business reports, and legacy applications. "Using CenterStage, our customers and integration partners have seen up to a 70% reduction in the time it takes to convert and build interfaces to new applications," stated Darrell Trimble, Vice President of Marketing at OnDisplay. Jeanine Fournier, Senior Analyst with Aberdeen Group supports this: "OnDisplay's content-based approach to integration will enable organizations to accelerate their application implementation and integration efforts." Central to the CenterStage Rapid Integration Architecture is a drag and drop graphical interface which supports an iterative approach to content integration. CenterStage allows organizations to integrate data into their operational applications faster and more completely than traditional methods. In an easy to use point-and-click environment, CenterStage 3.0 leverages a sophisticated parsing and pattern matching technology to overcome inconsistencies in content, and to integrate this content with other business systems. OnDisplay's approach delivers solutions quickly, with the ultimate in flexibility. Typical integration challenges such as data inconsistency, numerous data schemas, changing data formats, complex validations and transformations, widely varying sources of information and target destinations, complex business logic and large data volumes are easily handled. CenterStage's Rapid Integration Architecture provides a flexible and performance-oriented solution for reducing risk, cost and implementation time throughout the integration process. McKesson Corporation (NYSE: MCK), the leading health care supply management company in North America, plans to leverage OnDisplay's Rapid Integration Architecture to share information and link business processes within the company, as well as with their business partners. Carmine Villani, McKesson's chief information officer, said "OnDisplay's products are strategic to our corporate-wide efforts to integrate our business processes with key customers and suppliers. Global Marine (NYSE: GLM), the leader in offshore drilling management services, is at the forefront of companies integrating their business processes with those of their suppliers. "OnDisplay provided us with the key to automating many of our interactions with suppliers," said Dick Hudson, chief information officer of Global Marine. "We've shortened purchasing cycle times and relieved our purchasing staff of burdensome paperwork so they can focus on getting the best deals for our company." OnDisplay at Internet Commerce Expo, Booth #58 OnDisplay will be exhibiting its latest product offerings and demonstrating their ERP and eCommerce solutions at the Internet Commerce Expo in Los Angeles, Sept 22-25. The newly-launched CenterStage 3.0 will participate in the show's demo evaluation contest. About OnDisplay OnDisplay is the leading developer of Rapid Integration Solutions for ERP e-Commerce and Web Supersite applications. Based on the CenterStage Rapid Integration Architecture, OnDisplay solutions provide rapid migration and integration capabilities without modifying existing applications, writing custom APIs or changing IT infrastructures. The price range is between \$20,000 and \$250,000, and is licensed per server application and per application module. With CenterStage products, corporations can seamlessly integrate a diverse set of resources including Web-enabled applications, application data streams and legacy data files and reports with existing operational systems. Unlike traditional solutions, CenterStage products do not require extensive coordination between business partners. Named as one of Computerworld Magazine's "HOT 100" companies, OnDisplay products are in use at leading companies such as McKesson, American Airlines' SABRE Group, Washington Post and the Chicago Tribune. OnDisplay has established partnerships with PeopleSoft (PSFT), Oracle (ORCL), Microsoft (MSFT), Netscape (NSCP) and OpenMarket (OMKT). Founded in 1996, OnDisplay is a privately held, venture-

backed organization located in San Ramon, Calif. For more information, please call 1-800-508-8800 or 925-355-3200. Visit the company's Web site at [www.ondisplay.com](http://www.ondisplay.com). /CONTACT: Joan Hammel of Eastwick Communications, 408-298-7151, [joan@eastwick.com](mailto:joan@eastwick.com); or Darrell Trimble of OnDisplay, 925-355-3200, [dtrimble@ondisplay.com](mailto:dtrimble@ondisplay.com)/ 08:02 EDT

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**Commerce One Delivers MarketSite.net Business-to-Business Marketplace Portal & Announces MarketSite 3.0 Open Marketplace Platform**  
Business Wire  
Monday, March 29, 1999 12:17 EDT  
JOURNAL CODE: BW LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
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LEAD PARAGRAPH:

WALNUT CREEK, CALIF. (March 29) BUSINESS WIRE -March 29, 1999 - Forming a Global Trading Web With Unprecedented Economies of Scale

As part of the company's strategy to redefine electronic commerce, Commerce One, Inc. today announced Commerce One MarketSite.net, a Business-to-Business Marketplace Portal, and Commerce One MarketSite 3.0, an Open Marketplace Platform.

COMPANY NAMES: eastman chemical co; forrester research inc; gartner group inc; idaho power co; american express co; office depot inc; COMMERCE 1; OPEN; WW GRAINGER INC; GRAINGER WW INC; HORN GROUP INC; HORN LTD  
GEOGRAPHIC NAMES: CALIFORNIA; AMERICAS; NORTH AMERICA; USA  
INDUSTRY NAMES: BUSINESS SERVICES; COMPUTER SOFTWARE; EDI; ELECTRONIC COMMERCE; INTERNET; JOINT VENTURES; TECHNOLOGY DEVELOPMENT; COMPUTERS; COMMUNICATIONS TECHNOLOGIES; DATA COMMUNICATIONS; CORPORATE  
EVENT NAMES: CONTRACTS AND ORDERS; CORPORATE FINANCIAL DATA; JOINT VENTURES; SERVICES; TECHNOLOGY DEVELOPMENT

...only a browser or through popular selling solutions such as Intershop's merchant applications or **Microsoft** Commerce Server with the addition of BizTalk, allowing easy integration from supplier websites. Comprehensive Business...

...easy integration of  
trading partners, by emulating how business transactions  
occur in the physical world.

-- Schema for Object Oriented **XML** (SOX) -- rich **XML** schema

language enabling computers to classify, search, **validate** ,

map and dynamically interpret business documents.

-- Common Business Library (CBL) -- a semantic framework that  
enables...

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